

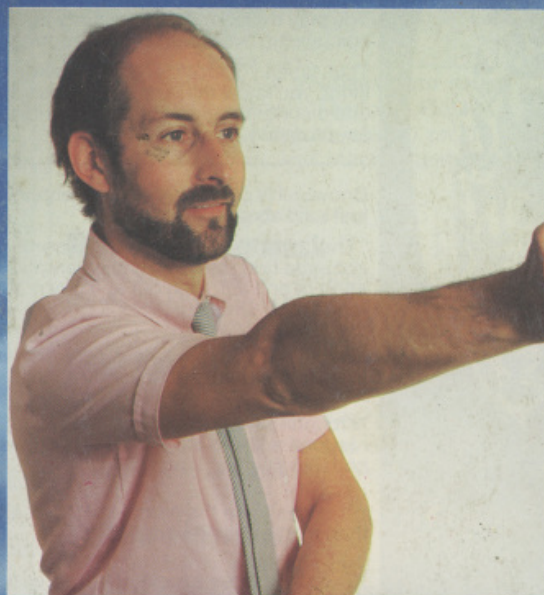
micro Adventurer

November 1983 75p

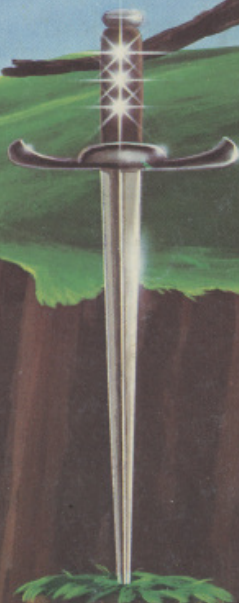
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to type
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Snowball is our new fourth adventure. Here's what the reviewers have just said about the first three:

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- *SOFT, September 83*

"Of the programs reviewed here, the only one that is wholly admirable is Level 9's Colossal Adventure."

- *Your Computer, September 83*

"I found Dungeon exceedingly well planned and written, with a fast response. There are well over 200 locations and the descriptions are both lengthy and interesting."

- *Computer & Video Games, September 83*

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- *Home Computing Weekly, 30th August 83*

"There are three excellent adventures on offer from Level 9... the descriptions are so good that few players could fail to be ensnared by the realism of the mythical worlds where they are the hero or heroine... great fun to play."

- *Which Micro?, August 83*

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EDITORIAL

MICROADVENTURER (MAD for short) is designed for novice and experienced adventurers alike. It will also cover the world of computer strategy, simulations and wargames.

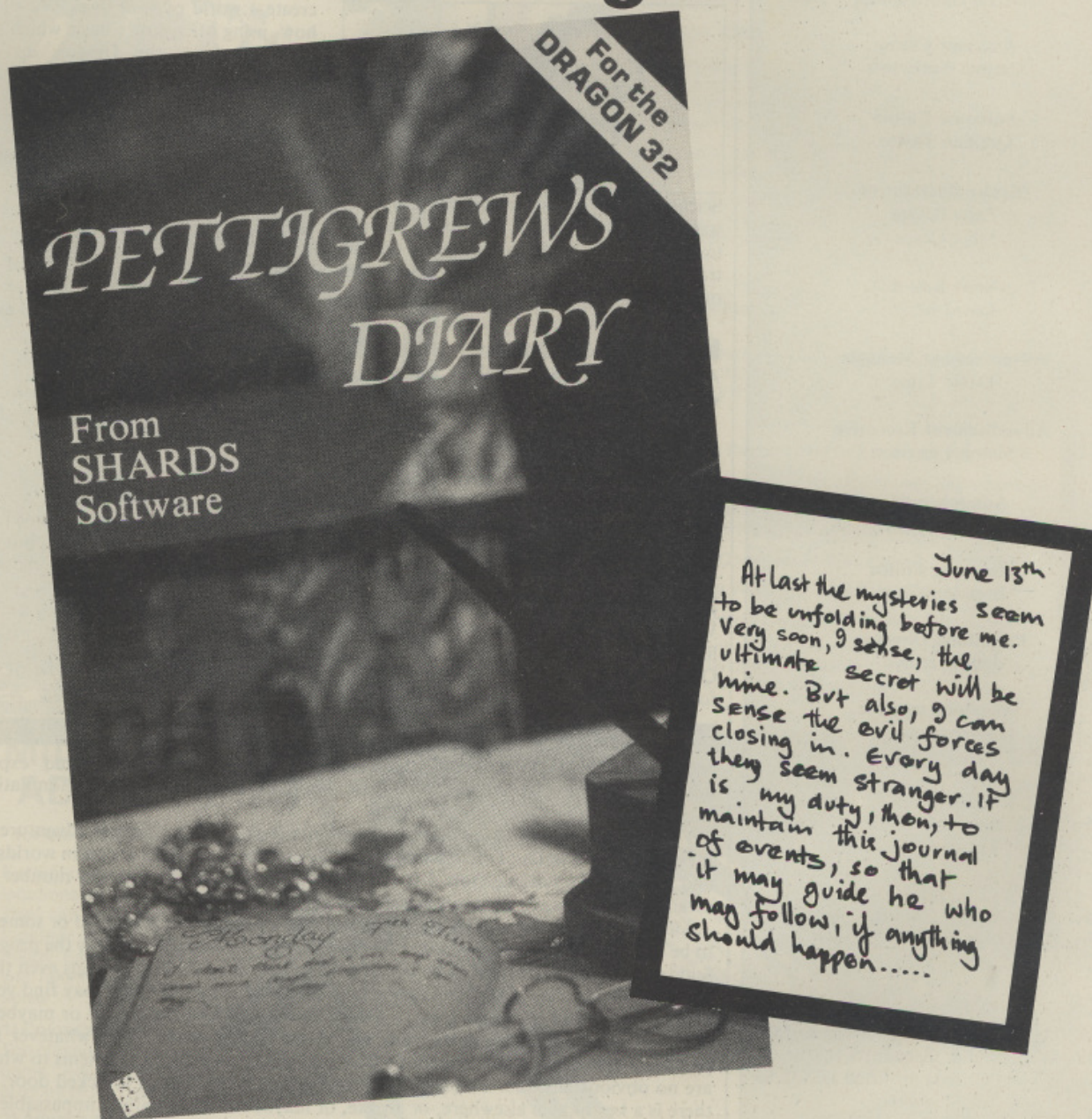
For those of you who have never ventured into the realm of computer adventures before, they consist of a series of intricate puzzles. The puzzles themselves are set in worlds of myth and imagination, ranging from J R R Tolkien's *The Hobbit* through any number of elves, dwarves and trolls, to deserted castles and vast alien space ships.

Most adventures have some central aim, either a princess to be rescued or some treasure to be collected, but much of the fun lies in exploring the world created by the programmer. Suddenly, you are confronted by wizards, vampires, dragons and perhaps even the fabled Medusa, whose mere glance will turn you to stone. Alternatively, you may find yourself in a world populated by Norse gods — Odin, Thor, Loki and the rest — or maybe a world where the confederacy won the civil war in the United States. But, whatever form the particular adventure takes, sooner or later you will be faced with problems to which there are no obvious answers. You may find your progress blocked by a locked door. Perhaps there is a key hidden elsewhere, or an axe, or maybe the door really is impassable and you need to find a hidden passage in another room. The only solution is to experiment, looking for clues all the time.

There is usually a purpose behind most of the objects to be found in adventures, though there are some deliberate red herrings. A tree, for example, may enable you to see the surrounding countryside, if you climb it. Then again, chopping the tree down may expose a hollow hidden in its roots. A cave which, at first sight, appears to be empty, may contain a cellar. But, if the entrance to the cellar is barred by a leashed watch dog, you will have to decide whether to kill the dog, or make friends by giving it some food. The obvious choice of killing the dog may allow you to progress further in the adventure, until you reach a toll bridge guarded by an armed sentry. The sentry refuses to allow you to pass, making it impossible for you to complete the adventure. But, if you had fed the dog and taken it with you, the dog would have frightened the sentry away, leaving the bridge clear for you to cross.

It is almost impossible to describe the feeling of elation that results from solving a puzzle that has had you stumped for hours. The solution is often obvious, after the event, prompting cries of "But why didn't I see it before?". Adventure players are continually questioning their environment and the characters they find living in it. Things are often not quite what they seem — happy adventuring.

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LETTERS

Send your hints, successes, complaints and compliments to Letters Page, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

Obsessed well-doers

MY FRIEND and I are obsessed by adventures and have recently purchased Artic Adventures A-D and think we have done reasonably well with them. We have some hints that may interest others: a multi-coloured inventory will prove ENTERTAINING at the porthole, and a surprise may mean a disguise.

The only adventure that we have succeeded in so far is Inca Curse in which our highest score is 3,850 treasure points — eagle 2,500 points, statue 400, coins 500, chandeliers 200, knives (Artic's spelling mistake) 100, and bowl 150.
Kennth McClure, Belfast.

Space for adventure

NOT EVERYONE uses their Beeb for education. How about reviewing some BBC adventures instead of always Vic 20 or Spectrum stuff? I would be glad to write you a review if you sent me some tapes.

C McQueen, Steeple Morden, Herts.

YOUR WISH etc, etc — no other micro mag has as much space as we do for adventures, so we will be able to extend our coverage to a wider range of machines.

On the subject of reviews: the best thing to do is send us a sample 300-word review of an adventure you already have, telling us what micros you own. If we're impressed then we'll send you new cassettes for reviewing.

Keeping a count

HAVING SOLVED the Count on the Vic 20 in three months I was pretty fed up with my journey into adventuring. I then swapped it for Adventureland and I solved that in about two weeks.

Then I realised that the numbering of the adventures was significant and so I next got Pirate's Cove instead of Voodoo Castle, thinking it would take four weeks to complete. How wrong I was — I have now been trying to solve this part of the adventure for 2½ months.

In this time I have made a few discoveries: pressing the V key causes the text to scroll a lot faster, and the P key reveals something totally unusual which I suspect is a debugging aid for the programmer. This works on the Vic 20, but I don't know about other computers.

Simon Mills, London SW12.

It's all in the name

I WAS interested to read of problems with Tansoft's Zodiac adventure, as I am the program's author. The clue to the safe is that the player cannot open it him/herself, but needs to get someone else to do it for him. I think that will probably be enough to go on.

On the maze in Zodiac: each room in the mirror maze has a unique name, so it can be mapped. For instance, one room might be: "You are in a

maze of confusing shiny mirrors" and the next: "You are still in the confusing mirror maze". Also, you are occasionally asked if you would like to be brought out, with a slight loss of score.

I would also like to point out that there are six treasures and that, despite reports elsewhere, the ram and scorpion are not red herrings. And there are 12 signs (think about the name of the game).

Geoff Phillips, London NW9.

Unsticking service

MAY I take this opportunity of mentioning the formation of a new mail-order software company, Adventure-Zone Software.

This company sells adventure programs only, and acts as a forum for adventurers to swap ideas and hints. We also help people that are stuck (if we can!), even if they did not buy their programs from us.

Simon Clarke, Adventure-Zone Software, 10 Ennis Close, Harpenden, Herts.

Running away

I HAVE played a game similar to White Barrows on the MZ80K and the reason the wizard (wumpus) runs away may have something to do with the fact that the exits are open.

I also have some clues for Colossal Adventure. The vending machine needs coins

and, as to where the colossal cavern is located, I think you must already be in it to find the plover room.

Anyone requiring specific clues to Colossal or Castle of Riddles can contact me on Micronet 302840768.

Jim Thornton, Doncaster.

Down in the dungeon

I WOULD be most grateful if you could give my daughter and I some guidance on the adventure game the Hobbit.

We have been wrestling with the tape for something over 12 weeks now, but no matter what brilliant play we come up with, we cannot get out of the goblin's dungeon.

We have visited the small comfortable room, the lonely lands, the trolls' clearing (large key), trolls' footpath, trolls' cave (sword and rope), Rivendell, misty mountain maze (golden key), the dim valley, Beorn's house (food), outside the goblin's gate, inside the goblin's gate, a large cave with torches, a stuffy winding passage, etc, etc.

We always finish up in the goblin's dungeon, armed with a sword, some rope, some food, Thorin (and sometimes Gandalf). After digging in the sand and prevailing upon Thorin to smash open the trap door, Thorin gets the small curious key (Thrain's key).

We cannot reach the window. We have asked Thorin to pick up the Hobbit — and then we get stuck! Our pleas for help always result in the same cryptic reply: "A window should be no obstacle to a thief with friends."

In order to restore some form of sanity in our household, we would be most grateful for any advice.

Peter R Feiler, St. Albans.

JUDGING FROM the correspondence it prompts, the goblin's dungeon is familiar to many. Tony Bridge is the person to write to if you need help with an adventure — he'll be writing a regular adventure help column for this magazine, in addition to his contribution to *Popular Computing Weekly*. If you want to solve a problem by contacting a fellow adventurer, then adventure contact is the section you need.



"This one is my Micro Adventure Campaign medal!"

HAVE YOU BEEN INVOLVED IN A MYSTERIOUS ADVENTURE RECENTLY?

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If you have a BBC Computer or a 48K SPECTRUM, you can obtain Mysterious Adventures direct from DIGITAL FANTASIA in any of the following dosages:-

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know

Dungeon starts to stir

DRAGON'S Dungeon has announced four new adventures for the Dragon 32.

The first is The Crystal Chalice of Quorum, a swords and sorcery text adventure of advanced difficulty. Next is The Temple of Zoren, a science fiction text adventure of intermediate difficulty. Third is Treasure Tombe, a real-time graphics adventure, and last comes Giant's Chest, a graphics adventure for young children.

All four have been written by Mike Meineck and are available on cassette. Each costs £7.95 except Giant's Castle which is £5.95.

Contact Dragon's Dungeon, PO Box 4, Ashbourne, Derbyshire, DE6 1AQ.

Blackpoole lights up on CBM 64

SIRIUS Software has converted its best-selling adventure title Blade of Blackpoole from the Atari to run on the Commodore 64.

Also, a new graphic adventure, Gruds in Space, will shortly be available for the Apple II and Commodore 64.

Each of the four costs \$39.95.

Contact Sirius Software, 10364 Rockingham Drive, Sacramento, CA 95827, US. Some of the titles are available in this country from Calisto Computers in Birmingham.

Mosaic paves the way to science fiction tapes

SCIENCE fiction fans will be interested to hear of a new company — Mosaic Publishing.

Mosaic will specialise in adventure games based around books by well-known sf authors. The software and book will be sold as a joint package, and the games will at first be for the Spectrum, BBC and Commodore 64 computers.

The first title, scheduled for early January, will be an adventure game based on one of Colin Kapp's *Unauthodox Engineers* stories — *The Pen and the Dark*. The *Unauthodox Engineers* travel the galaxy solving tricky engineering problems that nobody else can handle, and in the adventure you play the role of the book's hero Fritz Van Noon.

Harry Harrison, another science fiction author, is planning games to accompany his *Stainless Steel Rat* novels, and in fact is also working on a



Sf author Ian Watson

program to be released at the same time as the final of the *Rat* series, early in 1985.

Adventures are also planned to accompany other books and short stories: *Special Deliverance* by Clifford D Simak; *Soldier, Ask Not*, one of Gordon Dixon's *Dorsai* series; *The Width of the World* by Ian Watson; *The World Thinker* by Jack Vance; and *Technocolour Feudal*, one of the *Dag Fletcher* stories by

John Rankin. All of these titles should appear in the first half of 1984.

"The games will be adventures in the broadest sense of the word," says Mosaic's founder Vicky Carne. "Some of the titles will be of The Hobbit style, others will be more of the Dungeon and Dragons type."

To write the games the company uses freelance programmers working from schemes either developed by the books' authors or by Mosaic's own designers. More than 10 programmers are currently working on the various projects.

Mosaic was formed in July 1983 by Vicky Carne. She previously worked for Sinclair Browne, the book publishing arm of Sinclair Research.

Others involved in Mosaic include computer author Tim Hartnell and Clive Allison of publishers Allison and Busby. Mosaic's titles will be distributed by John Wiley.

Scrolling through the caves

SCROLLING on the Spectrum is put to good effect on Oracle's Cave, a graphics adventure from Doric.

Your quest is to find your way through the maze of caves to defeat the monsters and claim the treasure.

Pretty standard? Not really. The program features a split screen display. The top half is you, an animated figure, and the cave you are in. Text input in the lower screen half moves the figure into the labyrinth.

As you move from cave to

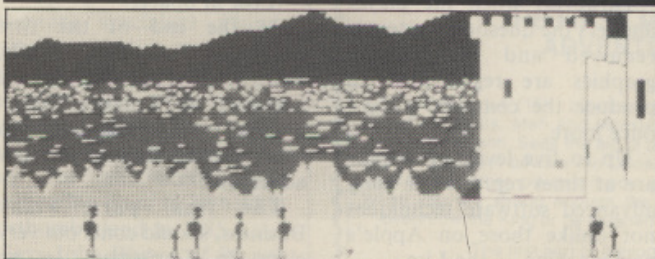
cave the display scrolls across pixel by pixel as the figure walks. When you enter a cave with treasure or monster you can see it and in the latter case defeat it. When you climb either up or down ladders you encounter, the screen scrolls up or down as the figure climbs.

You mustn't hang around, though. As the game proceeds time is running out . . .

Explains Chris Dorrell, the program's author: "A game lasts for five days — computer days that is. In real time you can expect a game to last about 40 minutes."

Every time the game is played the layout of the caves and connecting passages is different. So, too, is the distribution of monsters and treasure.

The Oracle's Cave runs on the Spectrum 48K and costs £7.95. It will shortly be available from WH Smith.



VALHALLA, for the 48K Spectrum, looks like becoming a worthy successor to Melbourne House's *The Hobbit*. The object of *Valhalla* is to find *Grimnir*, the helmet. But, first, you must locate five other special objects. Set in the world of the Norse gods, *Valhalla* uses a split screen to show both text and graphics. Unusually, however, the graphics are not static — you can move around the screen, as can the other characters. *Valhalla*, which comes complete with a player manual, costs £14.95 and is available from Legend, Freeport, 1 Milton Road, Cambridge CB4 1UY.

On your marks for Groucho

MID-OCTOBER sees the launch of Groucho, Automata's follow-up to Pimania.

In it you must follow Groucho all over the US picking up clues to a mystery personality. The first to discover the hidden identity wins a trip to Hollywood for two.

Those only in it for the music may delight in a new single by Lady Clair Sinclive and the PiMen to be found on the other side of the tape.

Groucho is for the 48K Spectrum and costs £10. Automata can be reached at 27 Highland Road, Portsmouth, Hants.

Sherlock Holmes on the trail of The Hobbit

MELBOURNE House has announced its follow-up to The Hobbit.

The new adventure, as yet unnamed, will be the first of a series based on the characters from Conan Doyle's detective novels — Sherlock Holmes, Dr Watson and Inspector Lastrade.

The adventure is in two stages — both in the same program. In the first you, as Holmes, discover a body and need to find the clues to identify the killer. In the second you must present your

evidence to Inspector Lastrade and, when he is satisfied that your evidence stands up, apprehend the culprit.

In the new adventure it is hoped to take communication with the other characters a stage further than in the Hobbit.

"The Hobbit was a unique step forward for artificial intelligence," says Melbourne founder Fred Milgrom. "Sherlock Holmes will be another step down that road where it will be difficult to distinguish between the computer and another player."

Dr Watson will be an invaluable helper, according to Melbourne House, but he is rather gullible — should you make an erroneous choice for the culprit he will most likely be just as amazed as if you have chosen correctly.

You must use him as a foil to discuss your ideas before going to Lastrade.

Doctor Watson's knowledge of railway timetables will be

crucial to apprehending the killer.

If you make foolish deductions in your discussions with Lastrade he will become "stroppy". If you continually bother him with ridiculous hypotheses he will even stop giving you much of his time.

"Although the plot is not based on any particular book we have tried to stick very closely to the mood of the Conan Doyle stories," says Fred.

It is not clear if the Sherlock program will have graphics as The Hobbit does. Explains Fred: "We are not sure if we will be able to manage the more advanced graphics together with the more complicated English interpretation and character interaction routines."

The Sherlock program is not expected to be ready until the beginning of 1984 and it will be available simultaneously for Commodore and Sinclair machines.

Wizard given quality graphics on the Apple



Graphics to get you in the mood, courtesy of Sir-Tech

ADVENTURES on the Apple II are beginning to employ some quite fancy graphics.

Most of the companies involved are American because that is where most of the Apples are. Sir-Tech is a New York based company with one such title — Legacy of Llylgamyn.

The program uses an unusual method for presenting its text and graphics. Both appear in 'windows' produced on-screen. Different types of display have different priorities. For example, an option asking if the player wishes to use stairs to go up or down might appear in the middle of the screens, covering part of the graphic repre-

sentation of the room: the text has priority over the graphics.

However, when the player answers the question the text is removed and the missing graphics are regenerated to produce the complete picture once more.

Up to five levels of display are at times represented using advanced software techniques not unlike those on Apple's new machine — the Lisa.

Legacy of Llylgamyn is the last part of the Wizzard trilogy from Sir-Tech and the first to use the new windowing techniques. Available on disk it costs \$39.95.

Sir-Tech is based at 5 Main Street, Ogdensburg, New York, NY 13669, USA.

Franklin takes off in Fishy Business

THE second part of Salamander's adventure trilogy for the Dragon is now available — Lost in Space.

At the end of the first program, Franklin's Tomb, Franklin discovers and activates the matter transporter, transporting him into space for the start of the new adventure.

The final part, Fishy Business, should come out very close to Christmas. In an underwater world Franklin meets the person who sent the strange message which first set him on the trail at the beginning of Franklin's Tomb. Fishy Business provides the final clues to resolve the mystery.

Although the trilogy will be

available first for the Dragon, BBC and Oric versions of Franklin's Tomb should now be available and versions of Lost in Space for these other two machines will follow shortly.

Each adventure in the series is supplied with an illustrated booklet and costs £9.95 — the same price for the three machines.

Looking further into the future, Salamander plans a full machine-code arcade/adventure hybrid by February next year called Rainbow Warrior.

The first of Salamander's long-awaited Castle-Barron series of role-playing adventures is now scheduled for the end of next year.

Snowball starts to roll

LEVEL 9's new adventure, Snowball, is the first part of a trilogy of adventures.

In the program you wake up inside a freezer cockpit on a colony ship bound for a distant star. The ship — an asteroid of ice five miles in diameter being towed through space by a fusion-powered tug — has been hi-jacked. You have been

put on the asteroid, unbeknownst to the crew, just to stop this kind of thing from happening — so you have to do just that.

Snowball is available for the Spectrum, BBC, Commodore 64, Lynx, Oric and Atari machines, all priced at £9.90.

The second part of the trilogy, Return to Eden, is planned for around Christmas, with the final part aimed for Easter time — The Worm in Paradise.

Shortly before Christmas, Level 9 plans a further adventure, not part of the trilogy, called Time Lords.

Orienteering in the comfort of home



The landscape unfolds before you on the Spectrum screen

THE Forest, a new simulation game for the 48K Spectrum, will appeal to armchair orienteers.

If you have always fancied the outdoor sport of orienteering, only without the physical effort involved, then this is for you.

The object of orienteering is to complete a given course through the countryside over rough terrain as quickly as possible, without getting lost. At the start you, and other competitors, are given the map references you have to get to, a map, and a compass.

The Spectrum version is a little different. For a start you don't need to leave your seat. A map is provided, and the Spectrum does the rest. You are given a routine to complete — about seven computer kilometres — but you can also set your own. There is also uncharted ground beyond the edges of the map.

When you are ready, off you go. As you change direction

the landscape unfolds before you on the Spectrum screen. The time that has elapsed since the start of the race is also shown.

The Forest is intended to teach the basics of the sport and enables an experienced orienteer to practise in the comfort of the home environment.

The program is published by adventure specialists Phipps Associates and is written by Graham Relf. Graham spends his spare time both making maps and orienteering. In fact, he is currently preparing the map for an international orienteering event to be held in Northumberland in 1985.

Says John Phipps of Phipps Associates: "The simulation is not as easy to play as it looks — most people say 'This is great' and go roaring ahead and fall straight in the lake."

The Forest comes complete with instruction manual and contour map of the terrain and costs £9.95. □

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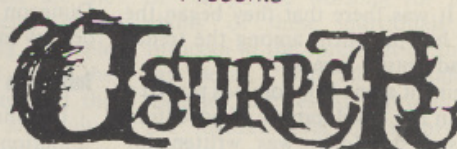
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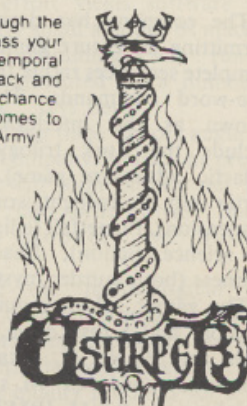
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Meet the men behind Infocom's mask

Andrew Briggs survives dwarves, wizards and other perils to bring you the story behind US firm Infocom

WHAT POSSIBLE connection could there be between a venerable scientific organisation like the Massachusetts Institute of Technology and a netherworld inhabited by dwarves, unicorns and wizards?

Stumped? Well, the answer is Infocom, one of the new breed of companies revolutionising the adventure game market. Infocom is a young company made up of young computer professionals who cut their teeth working within the hallowed walls of the MIT. It was there that they began the work that has put them among the trendsetters in adventure games.

Since going it alone Infocom has played a large part in the development of adventure games. Its first, Zork, was written for mainframe computers in 1977 in MDL, a language inspired by Lisp and developed in the early 1970s at the MIT. As the 1980s dawned, Infocom used its expertise to convert Zork to run on microcomputers.

Sentences

The company has developed software permitting adventure game players to use complete sentences rather than the standard two-word commands. These games are known as the Interlogic Series. They include the Zork trilogy, Starcross (a galactic adventure game), Suspended (a sortie into the twilight world of cryogenic suspension), Planetfall (a light-hearted look at science fiction), Deadline and The Witness (both murder mysteries).

The games, which require 32K primary memory and a disk drive, are compatible with the Apple II, Atari micros, the Commodore 64, CP/M systems, DEC's, Rainbow and RT-11, IBM bit, NEC's APC

and PC-8000, the Osborne 1, Texas Instruments' Professional and Tandy's TRS-80 Models I and II.

In Zork I the Great Underground Empire confronts players with predicaments ranging from the mystical to the macabre, as they strive to discover the 20 treasures of Zork and escape with their lives. Zork II takes players into new depths of this subterranean realm where they will meet the Wizard of Frobozz. And in the final game in this trilogy, players encounter the Dungeon Master himself, who holds their destiny in the balance.

Initiation

Deadline, an interactive mystery, is an initiation into real-life adventures. Players are pitted against a 12-hour time limit to solve a murder case, working from an actual dossier on the crime as they try to piece together the clues.

In the science fiction adventure Starcross players are launched into the year 2186 and the depths of space where they are destined to rendezvous with a starship from the outer fringes of the galaxy and enter the ship's mysterious interior. Once inside, they will come face-to-face with other worldly beings, both helpful and harmful.

Another science fiction adventure, Suspended, takes players into the twilight world of cryogenic suspension and awakens them to the nightmarish reality of a planet in crisis. Players strategically manipulate six robots in order to solve the problems. A game board and movable game pieces are also used. Suspended comes from staff member Michael Berlyn, an established writer of science fiction books.

The Witness, a whodunit rooted in the

classic mystery novels of the 1930s, is a follow-up to Deadline. It puts players on the scene of the crime, working from a clue-laden police file and battling a 12-hour time limit.

Planetfall takes a lighthearted look at science fiction. On a distant planet, the hapless player has been shipwrecked, armed with only a patrol-issue, multi-purpose scrub-brush and aided by a impish robot companion. Players are challenged with saving the doomed and plague-stricken world while trying to keep a straight face.

The company's vice-president for product development, Marc Blank, clearly sees the Interlogic Series as a big breakthrough in the adventure game field. Writing in the January 1983 issue of *Softline* magazine, he said: "In the five years during which Interlogic games have been developed, the parser (the part of the program through which the player communicates with the games environment) has been continually enhanced and expanded. The impetus for that expansion has been the desire to present the player with new and challenging problems.

Opening doors

"Early on, we recognised that adjectives were important in that they allowed the existence of more than one object of the same kind. An example from Zork I is doors: in the living room are two doors, a trap door (which is initially hidden) and a wooden door. The ability to distinguish between these is vital.

"The addition of prepositions and compound verbs using prepositions (eg "Pick up", "Put down" and "Turn on") was another important turning point in the



Marc Blank (left) and Joel Berez — "A complement of additional enhancements make game-playing more enjoyable"

construction of the Interlogic parser. There were two equally important reasons for this addition. In the case of prepositions, the need was compelling: "Put the knife in the trophy case", "Swing the sword at the cyclops", "Unlock the door with the key", "Fire the gun at the monster". Prepositions used in this way are vital if the verbs "Put", "Swing", "Unlock", and "Fire" are to be used conveniently and logically. Compound verbs allow a great deal of flexibility. Although the verb "Look" is ubiquitous in adventure games, the additional ability to "Look inside", "Look behind", or "Look under" adds new possibilities.

"Deadline incorporates a more conversational (albeit limited) style for interaction with the characters. One might

say, for example, "Mrs Robner, tell me about your husband." Or "McNabb, show me the holes." The important thing to realise is that the entire interactive basis of Deadline is predicated on the availability of a parser that allows that interaction. In the case of the Interlogic games, the need for an ever-improving interaction has consistently led to ever-improving parsers.

"A complement of additional enhancements make game playing more enjoyable; foremost among these are the ability to use multiple objects in a command, the ability to string multiple commands on one command line, the recognition of ambiguous nouns and the ability to easily clear up the ambiguity. These are all intended to save the player

from time-consuming repetition," he concluded.

The development of a programming system that allows full sentences to be used is obviously a big advantage for Infocom. But the company's president, Joel Berez, believes Infocom has two other things in its favour.

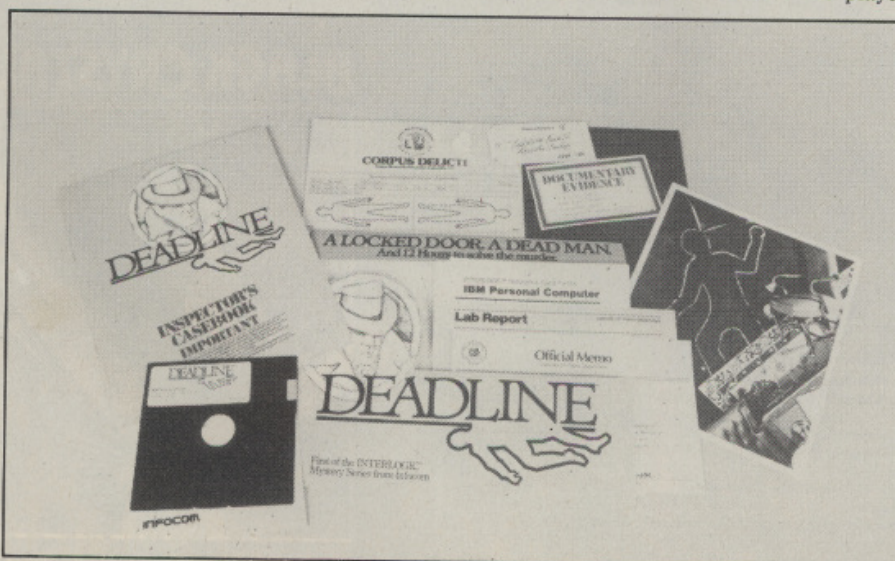
Expertise

The first is the MIT-influenced expertise of the people working for it. "It's the ability of these individuals that keeps Infocom in the forefront of the markets," says Berez. "With all these talents blended together, the resulting products can offer the highest level of sophistication. By working in a stimulating environment — formerly in the lab at MIT and now at Infocom — this team has developed an advanced set of programming tools."

The second is the versatility of the games. "Because we develop application software in a machine-independent manner, a single development effort yields software that, after only a very small amount of machine-dependent programming, will run on hardware manufactured by a number of major vendors," says Berez.

He believes both these factors augur well for the young company. In fact, he predicts that Infocom will soon branch out from entertainment into other areas, one of which will probably be business applications.

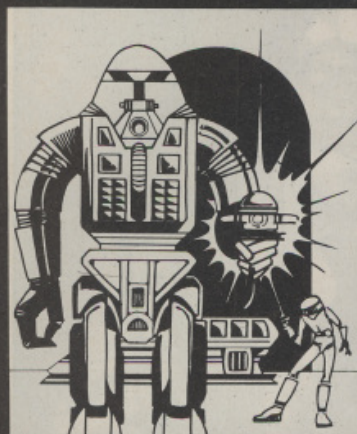
"We have the technological base established to develop new products," he says, "The personal computer market is growing by leaps and bounds and our plans are to provide quality products for a wide spectrum of computers and end users." □



Deadline — players are pitted against a 12-hour time limit to solve a murder

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*One of the less friendly inhabitants
of the netherworld created in adventure games*

Meet the gang . . .

Tony Bridge tells who's who in the
adventure game world in this extract from
his book *Spectrum Adventures*



THE BETTER AUTHORS employ a good deal of imagination in creating monsters, weapons, treasures and all the other paraphernalia in their adventures. But some characters tend to be regular inhabitants of these games — although familiarity should never be allowed to become contempt.

The term monsters, for our present purpose, can be applied to any character in a program that is out to do us harm — and they are not always recognisable as such. We can see distinct categories here. The classic adventure, descended from the original mainframe adventures, contains fairly passive monsters which tend to sit there, waiting for some brilliant strategem from the player to scare him away. Or we may have to avoid the monster by finding a way around him.

The evil dwarves are a notable exception in the Colossal Cavern adventures. They appear occasionally to throw a weapon at the adventurer. The first dwarf throws an axe. This must be picked up by the player and then thrown at the succeeding dwarves. They are all hurling knives, after the initial axe, but if you remember to keep retrieving the axe, you should have no trouble in

surviving their attacks. In Level 9's version of the classic, an endgame is included that extends the original to some 70 new locations. And here you can really get your own back on those little dwarves! By dropping dynamite near a crowd of them, you can score many points. Incidentally, during this finishing sequence, you can also score points by saving from death a number of elves.

As played originally, on mainframe computers, the printer was often the only means of seeing what was happening — so blow by blow combat in D&D style was not really feasible.

Active monsters

This leads us to the next monster category, which we find in the action games. In this category, the monsters are extremely active, and definitely out to get you! The combat system from the role playing games like *Dungeons & Dragons* is often used in these games, as exemplified in *The Valley*. And the monsters themselves, as befits the ancestry of this type of game, are of the leg-ripping, skull-crushing, heart-stopping sort. Here follows a list of some of

these lovely things, along with brief details of their attributes, and origins. I've put them in a very subjective order of fierceness — so, if you meet a balrog, you would usually treat it with rather more respect than, say, an Orc.

Dwarves appear in the original mainframe classic, hurling knives and axes at the player — nuisance value only. Orcs, the jack-of-all-trades monsters, appear in the most Tolkienesque adventures. Extremely vicious and ugly creatures, in groups, and usually wielding spears or scimitars. There is an Orcish Archer in one of Level 9's games. The Waug appears in *The Hobbit*. Originally an extremely dangerous creature, who often accompanied Orcs on their raiding trips, the Waug doesn't seem to be active in *The Hobbit*. Its mission in that game appears to be lying around dead.

Animals also abound. Most programs featuring a snake do so to create a problem rather than to actively cause a player harm. Birds are often to be found at the top of mountains sitting on Gold Eggs. Find a way to frighten them off before attempting to purloin the treasure. Dragons are very frightening and powerful — do not



*A gathering of the monster clan —
but the creatures needn't follow the classic monster mould*

approach unless very strong, or very sure of how to cope with it. In *The Hobbit*, you may need help. A kraken is a water dragon.

Elementals come in four types: Air, Fire, Earth and Water. You will need magic of a sort relating to the Elemental before attempting to fight.

There's no need to tell you how to fight vampires. Before coming across them, you should have picked up any requisites at other locations, don't turn your nose up at the garlic. Mind vampires are a special sort — they are not after your blood!

Dogs are very lowly monsters, but often attack in packs. Only the most rudimentary of weapons are needed to fight them. Wolves are often more vicious than dogs. Only magical weapons will be of any use against werewolves.

Goblins are small, ugly creatures which delight in prodding their victims in the knees with sharp sticks. Hobgoblins are larger, more dangerous and more cunning than their more animal-like halfbrothers.

A harpy is a winged creature of amazing

strength and agility. A siren is a sea-faring harpy — usually found basking on rocks near the sea, singing. Rock music was never like this.

Trolls are devious, greedy, oafish creatures. You'll meet two very typical examples in *The Hobbit*. They don't like the sun. Barrow Wights are ghostly apparitions which populate the Middle Earth wilderness.

Centaur are half horse-half men, often armed with bow-and-arrow, of which they are masters. Fire imps are little, agile flames of nuisance value. A fire giant is a large, dangerous flame. The thunder lizard is one of the most potent of monsters. Only tackle it if you are well-armed with conventional weapons, and have a fair amount of dexterity. A sand worm/purple worm is extremely dangerous. The sand worm is basically a mouth with a 60-foot stomach behind it. The purple worm is similar but with eyes, and not confined to the sand.

The Minotaur is the well-known bull-like creature. As dangerous as you would expect



*Some of the monsters look
truly out of this world*

a highly-intelligent bull on the rampage to be. The Wyvern is another winged beast — this one comes equipped with vicious fangs and claws. The Balrog is one of the most dangerous of all monsters, and often met in adventures, as typifying the whole Tolkienesque, D&D world of fantasy. You may also have occasion to meet a Lich, so be warned — they are extremely powerful. They are former wizards who have died and brought themselves back to life to wreak havoc.

Original creations

This is, of course, only a partial list of the monsters you may expect to meet. Most adventure programs will feature some of these, and more of their own. In writing your own adventure, imagination can be the only restriction. Just about anything can be pressed into service in a game, and I have seen everything from snowmen to London double-decker buses being used as death-dealing enemies.

Most programs that rely on a *Dungeon & Dragon*-style combat system will keep you informed of your current physical status. This may take the form of physical points, combat points, or food points. You may, indeed, be given a combination of all these, but it will be clear to you when playing, that a decision on whether or not to fight with a particular monster must be made by you, taking into account your own strength, using whatever system the program adheres to, together with your own knowledge of the monster's own rating.

Of course, you may be given no fore-warning of a monster's presence, and thus have to fight whether you want to or not. This sort of program would be a very unfair one, and they're not common. Most games will give you both a certain pre-knowledge of the monster's capabilities and a method of escape should you wish to decline the challenge. You may not, though, make good your escape, if the monster is a particularly speedy one!

The sort of combat we've spoken about so far, with the system of strength ▷

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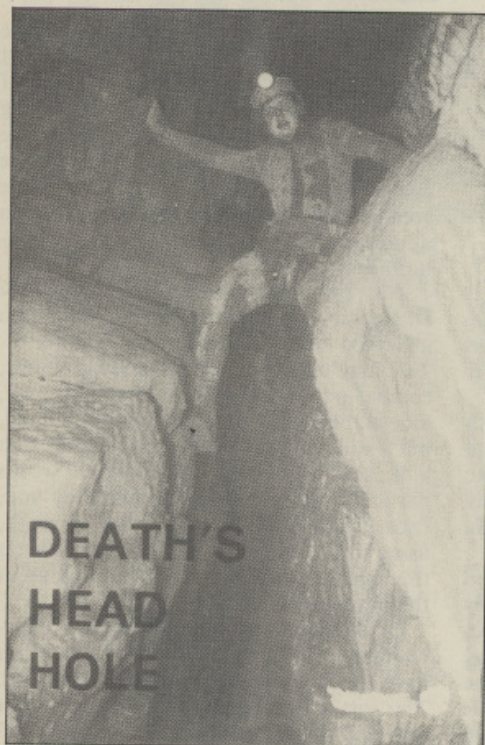
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◁ or combat points is based on the physical side of combat — that is, a few well-aimed chops at the monster's head with your broad-sword or morningstar. Many programs, however, give you the options of employing magical powers, and casting simple spells at a monster. This idea is very well-entrenched in D&D and Tunnel and Trolls, where many pages of the rulebooks are devoted to complex spells, which become ever more complex the longer you survive as a wizard.

The basic idea of a spell remains the same, however — to zap the monster with a well-aimed spell. This can take the form of a simple "SLEEP" spell which lays out the monster for a certain amount of time, to the "CRISPIT" spell as seen in *The Valley*, which annihilates the thing completely. Spells of this potency require a great degree of experience to use.

Weapons

At the start of the classic adventure, you are weaponless. You have to find your own armoury during the course of the game, and it will probably consist of not much more than a short sword, or dagger, or axe — and these are usually thrown at you by the occasional passing dwarf. These weapons come in handy when dealing with the dwarves, and you'll get points for killing them, but you will probably not get much of a chance to use them against dragons, or sirens, or other monsters. No, they are to be beaten by guile. You'll find that the Big Bad Pirate, who, every so often, rushes in to steal all your hard-won treasure and rushes out again to hide it, does so long before you can throw any axe you may also be carrying. So we have to look elsewhere if we are to use a lot of lovely, blood-dripping swords!

Although the Dungeons and Dragons system, with its swords, maces and so on, is a fertile ground, well-used by game-writers, there are several adventure programs available for the Spectrum which make use of more conventional weapons, including Richard Shepherd's *Superspy* and *Transylvanian Tower*. Fighting monsters with deadly weapons, however, is not really the ultimate aim of the traditional adventure game — sorry Jason, Fred and Tom of 2C! The monsters are usually protecting something, and that is usually the treasure (sometimes heavily disguised). We've finally arrived at what is without doubt the real reason for putting up with all the frustrations of playing these wonderful games.

Getting the treasure is not, however, the final story, as you have to return to a certain location to deposit the treasure and collect your points. Whilst this may seem a bit of a chore, as you will have to renegotiate all the perils on your return, there are, in most good adventures, certain routines to bypass this necessity.

Crowther and Woods wrote a certain magic word on a cave wall in their adventure — utter this at the right time (that is, when you have an armful of treasure you want to get rid of), and you'll



Is this monster one of the good guys or one of the bad guys?

find yourself, treasure included, back at your original starting point. You may then obtain your score. Other adventure programs actually allow you to carry the treasure-repository along with you. You may have to drop it at some point to allow you to collect treasure (or squeeze through narrow cracks in rocks) — so don't forget where you left it.

Treasures

Let's have a look at some typical treasures. And, as with my list of monsters, there will be a (rather loose) progression of potency. A helm is a boring iron sort of helmet, a silver helm is a bit better, a golden helm is quite nice, but a magic helm is more like it, although there is an even better one on offer — the Helm of Immortality.

Gemstones come as opals, diamonds of course, emeralds, topaz, lapis lazuli — you name them and you'll find them somewhere in an adventure. Rings are the boring sort, a silver ring is not bad, and even a golden ring is a bit common nowadays — every adventure seems to have one! The one found in *The Hobbit* is famous for having no perceivable purpose. An invisible ring doesn't look much (how could it?) but if it makes the wearer invisible too, then it is obviously useful. An invisible cloak is even better than the ring.

These last two lead us to a secondary list — of 'found' weapons. That is, weapons that the explorer will find in his travels, scattered about the caverns, rather than the

sword that most adventures provide their player with at the start of the game.

A torch is a very basic weapon, useful for clearing an area of ants, frightening wolves and so on. A club is a bit of a brutal weapon, not very subtle, while a dagger is a secretive variation of sword. A Kris is just one example of exotica. The typical adventure author is extremely imaginative when it comes to dreaming up new weapons, and you can meet all sorts of devices you never knew existed. Who said these games weren't educational? Scimitars are another bit of exotica on the face of it, but actually one of the favourite weapons of the Orcish tribe, so often met in adventures.

Meanwhile, back at the treasure: books are generally just worth points, as an artefact, but they are understood to be repositories of ancient lore, so, on opening, may increase your intelligence. But beware, they have been known to explode on opening. Gold coins are the standard currency in all the best adventures, but not as valuable as gold which is usually found in hoards, and is often the objective of the adventure.

And finally, but not leastly, the ultimate treasure of any adventure to date, *The Golden Sundial of Pi*. There is only one time and place in which it is to be found, and that time may well be 1986. It is still, however, the only treasure featured in an adventure program which can actually be won by the player. □

Little flair in doom

Adventure *The Caverns of Doom* **Micro Dragon 32**
Price £4.95 **Format** *Cassette*
Supplier *Premier*
Microsystems, 208 Croydon Rd, London SE20.

PREMIER Microsystems, known to Dragon owners as the disk drive company, has moved into adventure software. The cassette arrived in a custom cassette case with scant instructions. Premier's reply to this is that to give too much away would spoil the game — fair enough.

I had a little trouble loading, the levels required seemed to be higher than usually needed. However, after a few attempts, the game was up and running.

It is a standard sort of text adventure. Your aim, I can only guess at, because you are not told in the instructions. I would imagine it is to collect as much treasure as possible in line with the classic mould of adventure games.

The game starts promisingly enough with a simple scenario and several useful objects nearby to pick up. You are told a couple of the commands in the instructions but to get anywhere in this adventure you must endeavour to build up a list of the computer's vocabulary. There is no other way to do this than by trial and error.

On moving around the game and solving a few of the puzzles along the way, I saw a few things which suggested that this adventure had been a little rushed. Several words are spelt incorrectly and three or four are cut in half by the end of a line.

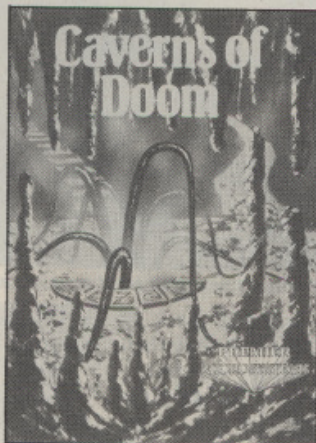
The response time for most commands is around 10 seconds, but this shortcoming has prompted Premier to produce a new version which should be the one on sale when you read this. The new version has a response time of around four seconds and the screen display has been improved (I hope those little errors have been corrected too).

I have come across no graphics and at the time of writing am close to solving the

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adventure. The game is really for beginners, fairly simple and straightforward with a few absorbing puzzles to solve but not much to excite the experienced adventurer. At £4.95 it's fairly priced but it is lacking in flair. **CG**



No sense in the thunder

Adventure *Caveman*
Adventure *Micro BBC*
Price £6.95 **Format** *Cassette*
Supplier *Program Power,*
8/8A Regent St, Chapel
Allerton, Leeds.

CAVEMAN Adventure is intended as an introduction to adventuring, and is therefore not too arduous a trial. But it is very well presented, and pleasant enough to play. You take on the persona of a Neanderthal man, who must overcome various hazards to reach his village. The hazards are suitably neanderthal — including stampeding buffalo, large insects and the like.

Here is my first complaint:

the various "sudden deaths" resulting from a wrong direction are a bit too sudden for my liking. Early on, for example, you are told that you are hungry. In the next move, you drop dead from starvation!

One feature of the game, not mentioned in the insert, is the use of the BBC's sound. This makes the game all the more enjoyable, using white noise mainly for rivers.

Caveman has one of the best screen layouts I have seen in an adventure. A description of the location is displayed at the top of the screen, along with the title, on a coloured background. Any objects are immediately under this, against a different background. The rest of the screen is normal teletext white-on-black, and is used for commands and responses. Oddly, the program can run in Mode 4, 5 or 6.

The game has some quirks in its commands (there are 12 verbs it will accept). GET and DROP are replaced by TAKE and LEAVE, and DESCRIBE is EXAMINE. The more unusual USE is a kind of general purpose verb for objects.

There are a number of other



quirks, some serious. For instance, a thunderstorm which frightens the caveman into dropping everything does not reset the inventory to zero. Instead, you are told "you cannot carry any more", even when INV responds "you are carrying nothing".

Thunderstorms apart, this is an enjoyable adventure which experienced adventurers and newcomers alike can play. **MW**

All aboard for war games

Adventures *Conflict and Galaxy Conflict* **Micros ZX81, Spectrum 16K, CBM 64, Atari 800, BBC B, Dragon 32**
Prices £11.95 on the Sinclair machines, £14.75 on the rest
Format *Cassette plus board and counters*

Supplier *Martech Games, 9 Dillingburgh Rd, Eastbourne, Sussex.*

BOTH OF these games are different from most adventures as a separate playing board is included with each, and consequently most of the action takes place off the computer screen itself.

The games come in fairly large boxes by computer game standards, and look like ordinary board games at the first glance. Indeed, once the box is opened the similarity continues, until you notice that among the board, counters and other paraphernalia there is a cassette tape.

On one side of the tape is recorded a program for the ZX81, and on the other a program for the ZX Spectrum. The appropriate program for the players' computer has to be loaded before the game can start. Both games are two-player only, so you will have to grab a sibling, spouse or gullible friend as well.

Conflict, the first game, is set in the present or near future, and is a war between two countries. Each player is in control of the resources of one country, and the winner is the first to march an army into his opponent's city. As an alternative, if time is limited, both players can agree on a number of moves after which the game will end.

Most of the game is spent

Revolution on The Quill

Adventure The Quill
Micro Spectrum 48K

Price £14.95 Format Cassette
Supplier Gilsoft, 30 Hawthorn
Rd, Barry, South Glamorgan.

ONCE IN a while, a product comes along to revolutionise the whole microcomputer scene. The Quill is one such, and will change the face of microcomputer adventure.

With this package, anyone, even those with absolutely no programming experience, can write their own adventures for the Spectrum. All that is required is for the user to read the bulky, well-written manual, plan the adventure on paper, and then key in the data. The Quill takes care of the rest.

A long menu is shown on-screen to begin, allowing the user to input all the text messages, or edit existing ones. A similar process takes care of



the movement allowed, objects to be found, special conditions (for example, the player must GET the lamp before being allowed to switch it on), and all the other parameters of a good adventure. The finished framework may then be tested, and amended if necessary.

Gilsoft will allow the writer to sell the resulting adventure — all it asks is that it be given a mention.

Although programs resembling this one have been available before (such as Crystal Computing's *Dungeon Master*), these have been aids to *Dungeon and Dragon*-type play-board creators, and not aids to writing complex and difficult adventures. With *The Quill*, anyone can sit down, let their imagination run riot and fashion satisfying programs. Admittedly, many attempts will be rather repetitious — for a start, graphics are not supported, although UDGs are catered for.

Such an important program really needs more space devoted to it than I have here, and next month, *Micro Adventurer* will be looking in depth at *The Quill*. **TB**

trying to earn the money necessary to purchase and maintain army units (mercenaries?). This can be done by dealing on the stock market, surveying and drilling for oil, and pirating neutral ships carrying precious metals.

At each turn the players have to decide how much of their available revenue to spend on buying shares, armies, warships, oil prospecting, etc. In this sense the game is about resources management, not unlike the many other such games available on most microcomputers (eg *Dictator*, *King*, *Hammurabi* and *Stock Market*).

However, the game also has the feel of a more traditional board game, since armies, warships and the like are represented by counters which are moved around the board.

Galaxy Conflict, the second game, has a much more futuristic setting. This time each player is the leader of a fleet of battle con cruisers, and the object is to defeat the enemy and become ruler of the galaxy.

The game is very similar to *Conflict*, except that this time the limited resource is energy, and at each turn the players must decide how much of the available energy is to be used to build new con cruisers, refit

damaged con cruisers, attack enemy planet stations, and the rest.

However, the game is not as simple as it sounds, as there are also crew to think about, who will starve unless their supplies are replenished at fairly regular intervals, and of course there is the element of the game which involves moving counters round the board, as in *Conflict*. Also, there is the problem of defending each planet station's mineral moons, which provide the only source of regular energy input.

The programs vary little between the Spectrum and the ZX81 versions, since only very limited use of colour and sound is made on the Spectrum versions. However, although they are not very impressive from a programming point of view, they do the job that they have to do.

However, I do have a criticism of the programs — they do not keep track of where everything on the board is. Instead this information has to be entered every time the computer requires it.

The boards themselves are very clear and well laid out. Both are divided into grids, with *Conflict* also being divided into regions which are identified by colour. The boards certainly have a much

more professional feel to them than the programs.

However, the instructions do not receive such high praise. There seemed to be essential details missing from both sets, such as how to move the neutral ships in *Conflict*, and when the game actually ends in *Galaxy Conflict*. Still, as long as both players can agree on a convention, this needn't actually spoil the fun.

In general, I found both these games enjoyable, and sometimes even quite intellectually taxing to play. However, rather than saying that they are computer games which also use a board, I think that it would be more accurate to say that they are board games in which a computer program replaces the dice and paper money. **SL**

Thanks for the memory

Adventure Adventureland
Micros Vic 20, Ataris 400
expanded and 800

Price £9.99 on the Vic and
£16.99 on the Ataris for text
only — graphics version on
Atari disk costs £27.99

Format Cartridge for the Vic,
cassette or disk for the Ataris
Suppliers Commodore, 65
Ajax Avenue, Slough, Berks
for the Vic version,
Adventure International, c/o
Calisto Computers, 119 John
Bright St, Birmingham for the
Atari.

CAN THERE be any adventure fanatics who haven't heard of Scott Adams? I doubt it. *Adventureland* is cartridge number one of the Commodore range of Scott Adams adventures, and is also available for the Atari.

So, what do you get for your pennies? The packaging on the Vic version is OK and there is a brief but useful instruction leaflet. The fact that it is a cartridge is a big plus — seven minutes of thumb twiddling is just a bad memory! Plug in the cartridge, switch on and away you go.

Down to the program itself. First you are asked if you want to play a saved game, a fairly standard but useful option. Then you get a brief into page. The object of this text adventure (graphics only come on the Atari disk version) is to find 13 treasures and store them away in a special location. However, you don't know where that location is until you find it.

The screen format and command structure are also standard. One and two word commands are accepted in the usual verb-noun style. Some abbreviations are also accepted, eg N, S, E and W.

You begin the adventure in a forest, where a head for heights may prove useful. You may stumble across a sleeping dragon in a leafy meadow or an evil smelling swamp containing Chiggers — a surprise to me, I thought that Chiggers was Noel Edmond's little friend. The largest part of this adventure takes place underground, but you must find out for yourself how to get there. You will also meet, amongst others, a bear and some bees during your travels, and find uses for the most unlikely sounding objects.

When you have made good progress, it pays to 'save' your position, in case you meet a sudden end and have to start from scratch.

There are a couple of annoying features in this adventure. Each time you move to a new place, you ▷

◁ have to 'look' at your surroundings, as if you were walking around with your eyes closed. Secondly, a lot of the treasures you just happen upon for no particular reason. It would be far better if they were hidden within a location.

If there's one thing guaranteed to get an adventurer pulling his hair out, it's locations that are laid out illogically, eg moving south to a new location and then finding that you have to go east to get back to where you started. No such problems with this one.

Yes, I enjoyed this adventure; it's not a five minute wonder and several problems had my wife wearing earplugs. PM

Good and bad on Kraal

Adventure *Kraal's Kingdom*
Micro Vic 20 + 16K

Price £4.95 **Format** Cassette
Supplier Buntasoft, 149 Monks Walk, Buntingford, Herts.

KRAAL'S KINGDOM is a text adventure spread over two 16K parts, giving a full 32Ks worth of adventuring.

The adventure is, apparently, set in the Dark Ages in the kingdom of Kraal, an evil land baron. Kraal has kidnapped the princess of a neighbouring kingdom. It is the adventurer's task, as the hero, to rescue her.

In part one you have to

travel around Kraal's kingdom, collecting weapons and equipment with which to defeat him and survive the traps he has set for you. This involves fighting an evil knight, smashing down barn doors and robbing a corpse of its weapons, among other things.

In part two you must make your way into Kraal's castle, find the princess and deliver her from the clutches of the evil baron. To do this, Kraal's loyal guards have to be overcome.

I'm afraid I was not really excited by this game. The plot itself seems reasonable, but I found the presentation not up to the standard that one would expect from such a game.

The whole game's text is in capitals, making it difficult to read. There also appeared to be some bugs in the program. For instance, at one stage, I was caught floating on a plank of wood in the middle of a lake, and no matter what I tried, I could not move or get ashore. I had to resort to turning off and re-LOADing.

This happened on a number of occasions at several different locations. Maybe I just couldn't find the right commands and gave up too soon, but none of the standard adventure commands worked.

Another fault was that you could go straight on to part two without even playing part one.

Still, Kraal's Kingdom does have its good points as well. It is easy to use and you can move around reasonably easily, allowing you to make a map of your movements without



running into problems.

I'll leave it up to the buyer to weigh up Kraal's good and bad points, but those who are very experienced in adventure games should give it a try. It is not, however, the best game for beginners. SL

Challenge in The Crypt

Adventure *The Crypt*
Micro Spectrum 48K

Price £4.95 **Format** Cassette
Supplier Carnell Software, North Weylands Industrial Estate, Mosely Rd, Hersham, Surrey.

PREPARE yourself for the many challenges that shall confront you when you dare to enter The Crypt. You will battle with Giant Scorpions, Hell Spawn, Craners, Pos-Negs and if you are unlucky enough, the Dark Cyclops!

So runs the blurb on the

packaging of a new program, released this very month by Carnell Software. Written by 17 year-old Stephen Renton, The Crypt is a mixture of graphics and fantasy.

Several levels of dangers make up the game, and each level contains a large number of mini-crypts for the player to explore. There is a chest in each location which may contain treasure, or, if you're unlucky, something horrible like a black mamba. There is a catch, of course — there is also a Guardian present, who doesn't take very kindly to having its personal chest examined in this way, and will come after you, intent on drinking your blood. Carnell doesn't want to lose all its customers, though (there are a lot more goodies on the way from the company), so it wants to provide a weapon for the intrepid adventurer to pick up.

The monsters aren't easy to kill, and precise positioning is called for. At screen-bottom is displayed your combat rating, along with the monster's, and these are reduced as battle progresses.

There are plenty of other hazards — watch out for the lethal lightning bolts, and the invisible walls.

Your reason for indulging in all this wandering about is not just mere monster-bashing. Your mission is to find a certain bauble and return it to the first location. Once this is accomplished, the player is given a code word which is used to advance to the next level — then the trouble starts all over!

The program is so new that I

Escaping from the computer

Adventure *Secret Mission*
Micro Vic 20 + 16K

Price N/A **Format** Cassette
Supplier Kew Enterprises, 14 Fairway Avenue, Manchester.

THIS IS a text adventure (with a touch of graphics here and there) in which you, the explorer, have been trapped in a huge computer complex.

Your mission is to find and deactivate the central computer which is in control of the establishment. As you move around the rooms and corridors, you encounter numerous puzzles. These can

range from opening a door with one of six buttons, with only a cryptic clue for help, to killing a manic robot.

The building's four floors are inter-connected by several lifts and stairways. There are also several utility rooms which have to be discovered with the careful use of the clues and hints provided.

After sitting for about five minutes, waiting for the game to load and hoping it would be as good as it sounded, the screen lit up with the running titles and the adventure began.

Secret Mission features a game-save option and accepts all of the usual adventure commands, except that the INVENTORY command is replaced by CHECK.

The game is further brightened by the addition of the odd bit of graphics. For instance, when you enter one of the lifts, the control panel is displayed on the screen, with a light next to the floor number the lift is on.

Although I did not manage to complete this game, I am sure I came very close. This is

the type of adventure which can be almost as addictive as Invaders, but, of course, still involves the cunning and logical thinking necessary to solve all good adventures.

My only criticism is that map-keeping is made a little difficult by the fact that you occasionally go up or down flights of stairs automatically, or fall through a trap door in the floor.

I shall say no more now, for fear that your fun will be spoiled. Just go and have a try. SL

Hell brings life to Oric

Adventure *Hell's Temple*

Micro Oric 48K

Price £12.00 Format Cassette

Supplier Kenema Associates,
1 Marlborough Drive, Worle,
Avon.

"IT IS the time of the dark ages when only witchcraft, sorcery and fear ruled mankind." So I entered the realm of Hell's Temple, an excellent adventure for the 48K Oric. You are placed on the top level of a deep, dark temple of many rooms, and your task is to gather as much treasure as possible while avoiding the dark forces of evil.

The game revolves around a graphic display of the part of the temple in which you are situated. You can move in one of three directions: left, right or forward. In this game, there is no turning back.

You will be confronted with a quick description of the room in your chosen direction. Then you are given the choice of entering the room, leaving, asking for details of any monster, or detecting whether



the information given to you is an illusion or a trick. If you enter a room where a monster lies, then you are given four more commands: RETREAT, FIGHT, BRIBE and SPELL.

The chances of bumping into a monster are very high as there are 76 different varieties of beast waiting to kill you. As you get lower and lower, the monsters become tougher, larger and more frequent. The instructions warn casually that

things do get a bit difficult from level 27 downwards. Only the locations are shown in 3D graphics, there not being enough memory to include the monsters, though you get an idea of them from the excellent instructions at the beginning.

In many adventure games, the constant battering you receive from monsters can and often does get monotonous. Not so in this game, each battle is a test of your resources. Your gold, strength and spell levels are displayed on screen. If you are killed, and there are a number of delightful ways that this can occur, you have a small chance of reincarnation. That's what the instructions say, I have never been reincarnated.

The game is simply excellent, and obviously much thought has gone into its design. There is a game save facility and an anti-copying device built into the program. I would have liked to see it priced lower but one cannot grumble at such a superb game. **CG**

visited The Crypt a mere few hours before press time, so I haven't even rated a mention in the Fantasy HiScore Table, but I'm looking forward to finding all the secrets of this weird place. **TB**

Virgin castle speciality

Adventure *Castle Adventure*

Micro Dragon 32

Price £6.95 Format Cassette

Supplier Virgin Games, 61-63
Portobello Rd, London W11.

VIRGIN, THE record company, has launched into computer software in a big way with the introduction of a number of games for the main home micros. Castle Adventure is its offering for Dragon 32 adventure buffs.

Set in and around a castle, this program operates in the standard manner of GET KNIFE, KILL MONSTER, etc. Supplied with Virgin's somewhat gaudy packaging (green and lilac stripes all over

the card are not really my cup of tea), the cassette loaded well.

Your aim in this adventure is to recover the staff of Gamroth and get back to the castle drawbridge, the start of the game. You are not given any commands to use and must work them all out for yourself. If you make a mistake the computer rather oddly replies: 'EH! WHAT? PARDON!! SORRY?' — not very helpful.

The game is written with tongue quite firmly in cheek, though I did not find it funny when I tripped over a cassette recorder lying on the spiral staircase and killed myself. Why a cassette recorder in an old castle? I don't know, but when you write an adventure game of this quality, a little artistic licence is allowed.

This game does support a reasonable range of commands and gives balanced replies to your inputs. But I won't give you examples of the commands available, that would spoil your fun. The author is a 14-year-old programmer from Manchester named Conrad Jacobson.

One feature I would have like is a game save facility.

There is nothing more monotonous than having to enter the same first 30 commands just to get back to your previous situation.

There are a few other minuses as well, including a poor use of sound and an unimaginative use of the Dragon's graphics and colour capabilities but these criticisms are concerned with the frills of the program. There is nothing wrong with the main game core. **CG**

All at sea on this island

Adventure *The Island*

Micro CBM 64

Price £10 Format Cassette

Supplier Superb Software, 98
Oval Road, London NW1.

ANY FIRM with a name like Superb Software can't really be taking itself seriously. This is proved by its "interactive graphical adventure" The Island, which could yet win a prize for one of the worst

computer games in 1983.

To load the tape takes almost a quarter of an hour, which gives you a lot of time to read the cassette inlay card and instructions. Well, it would if there were any, but all you get is a handwritten postcard (without a stamp) asking you for your comments about the game.

Luckily it's a very small postcard, because there isn't a lot that can be said about The Island.

When the program finally loads, a map of the island appears on the screen, followed by two pages of instructions. Basically, you are a competitor in a round the world motorcycle race, and the last stage finds you on an island "somewhere near Japan". To win the race you must cross the island with your limited supply of petrol, money and time.

To help you out, the instructions kindly give you a list of all the verbs that you can use in the game. Surely part of the fun of playing adventure games is finding them out for yourself? Oh well, with two word entries having to be entered as PUS SOU for PUSH SOUTH, you can't take it all too seriously.

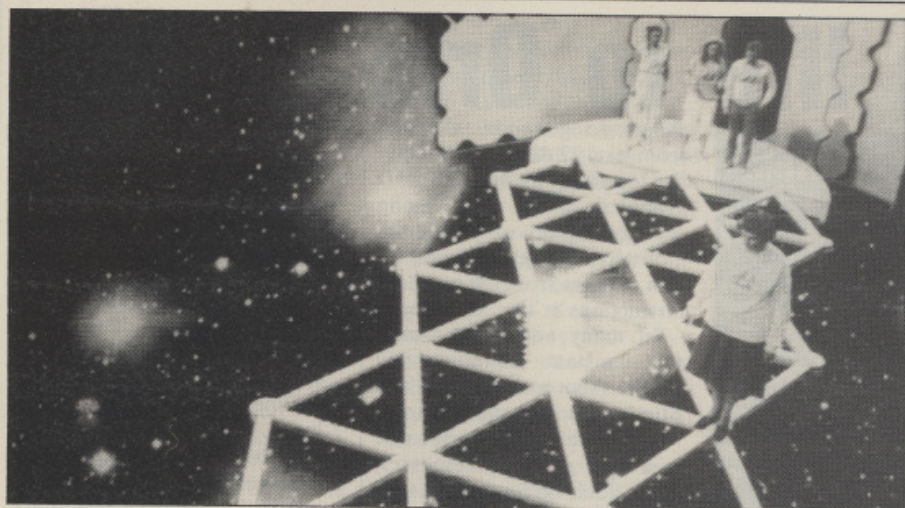
On a machine with the capabilities of the Commodore 64 you might be forgiven for expecting some quality graphics. However, what you get is a collection of block graphics!

On with the game. Each move you make takes up three minutes of your very limited time allowance, and a quarter of a litre of your precious petrol. As soon as that runs out you're reduced to pushing the bike, unless you can find out how to get some petrol out of the garage.

Sooner rather than later you run out of time, and the game flashes the words YOU BLEW IT at you, all over the screen: the last thing you need.

Side two of the tape gives you some more information about Superb Software, and informs you that a prize will be awarded to the first person to send in a complete map of The Island. Perhaps they don't know themselves?

Superb Software is quite a name to live up to, but The Island certainly doesn't manage it. Don't bother buying it. **PG**



The Vortex — the last hazard the contestants face before escaping back to earth

Hitting the adventure trail on tv

Andrew Briggs talks to the men behind *The Adventure Game*, without being evaporated

A COUPLE OF years ago BBC producer Patrick Dowling was given the task of devising a science programme for children. But the BBC bosses were in for a shock. What emerged from Patrick's fertile imagination — honed by numerous games of Dungeons and Dragons and a fascination with computers — looked like a cross between Dr Who, The Generation Game and Open University.

Instead of blinding the kids with science, Patrick decided to make the learning fun. He took the concept of computer adventure games and adapted it for television. The result, appropriately enough, was called *The Adventure Game*.

The premise of the game is simple: three Earth people arrive on the planet Arg and, before they are allowed to return home, have to solve a series of logic-related

problems. Failure to do so means evaporation. But, just to make things a little easier for the Earthlings, clues are provided along the way by some of the planet's zanier inhabitants.

Aspidistras rule

The BBC obviously likes the game, as do the younger viewers. A third series has just been made.

Patrick Dowling and the man eventually responsible for producing the program, Ian Oliver, both believe strongly in the "fun" aspect of the show. "Children like fantasies," says Patrick. And *The Adventure Game* certainly isn't lacking in the fantastic. Just look at some of the resident Argonds — a "Bazza McKenzie" character who talks backwards because he comes from the other side of the planet; a

Producer Ian Oliver, whose friends include the three-eyed

furry little three-eyed beast called a dogran; and a rather bad-tempered aspidistra which, it transpires, is the planet's ruler!

"Originally the program was aimed at the 11 to 16 age group," says Ian Oliver, "but we get fans as young as five. I think they like to see people get evaporated."

But *The Adventure Game* isn't completely out of this world. The puzzles posed for the contestants are quite down to earth, some being of 11-plus science level, while



Noel Edmonds, Ray Virr, Fern Britton and friends struggle through a puzzling environment in one episode from the show





Logan — "We get fans as young as five. I think they like to see people get evaporated"

others bear a strong similarity to childhood games. They all have one thing in common — it takes logic to solve them.

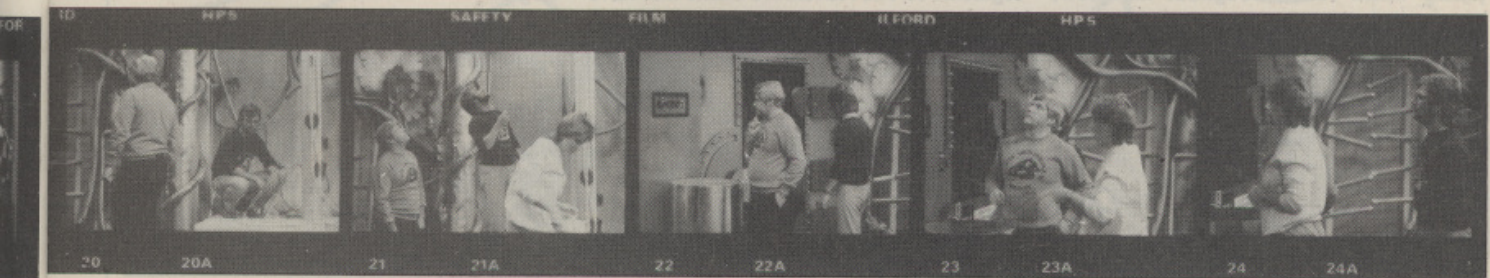
In a typical show contestants might be required to work out a telephone number or a password, find their way through a maze, or use their powers of logic to beat a resident Argond to a crystal. And, throughout the programme, the visitors must work out what present they can give the planet's ruler without incurring his

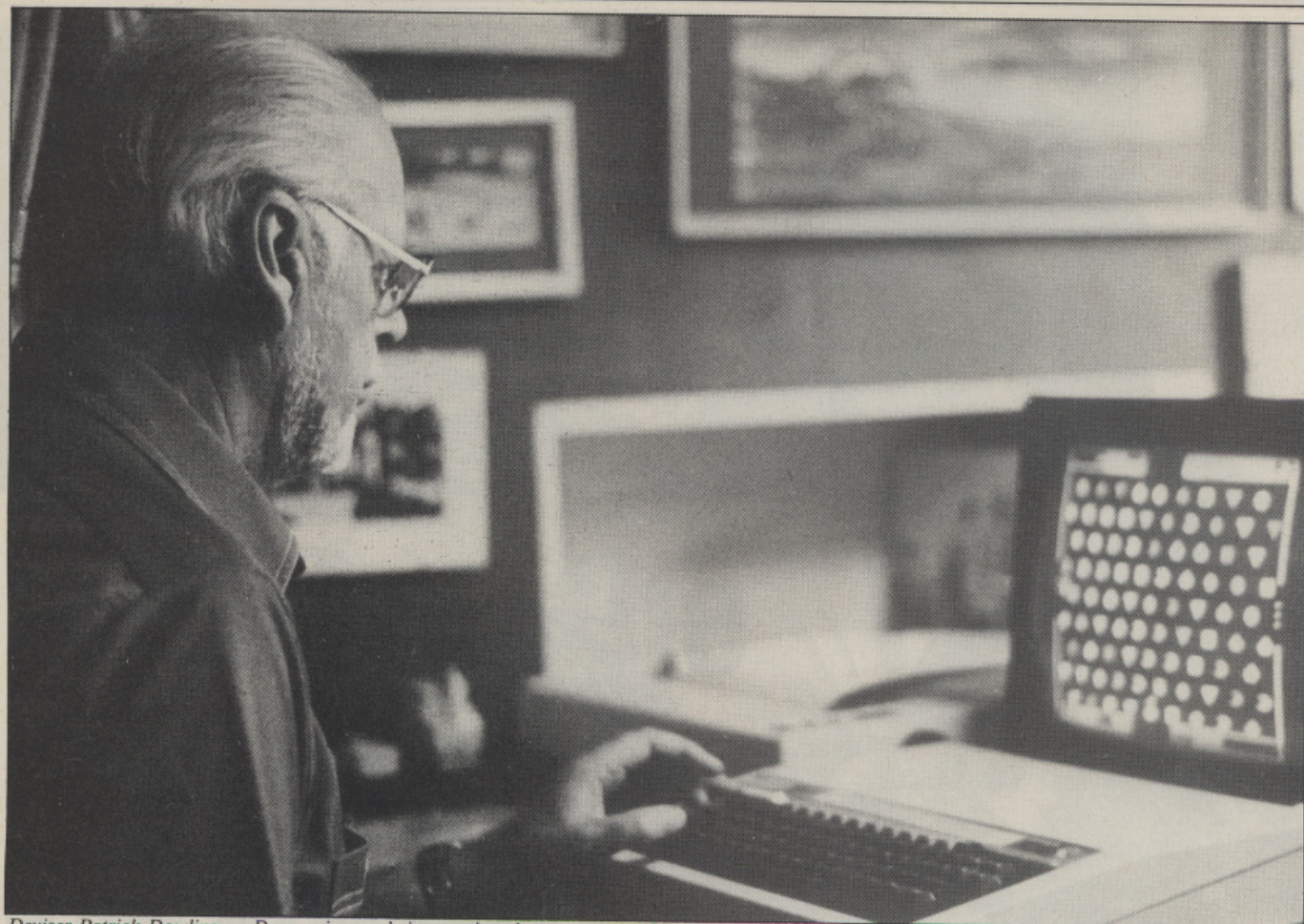
wrath and being evaporated. At various stages in the show, for example, they are told that the ruler likes balls but not round things, ballads but not songs. All very logical really.

And, of course, where there's logic there's usually a computer — often up to five (BBC, naturally) are used in production of The Adventure Game. Most obvious is the one used in some parts of the programme by the contestants, but a

number are also used behind the scenes to add the effects that help make the programme so appealing.

But even with the aid of a computer, ultimately it is the logic of the contestants that is being put to the test. And, since the contestants are not always the most logical people in the world, clues are often needed to prevent the show getting bogged down. It is the job of the Argonds — those strange characters mentioned earlier — to steer ▷





Deviser Patrick Dowling — Drogna is now being marketed as a program for the BBC micro

◁ the contestants in the right direction when needed.

If you're a fan of The Adventure Show you will probably have noticed that some of the clues seem a bit obscure. Well, there's a reason for this. The contestants usually consist of two show business personalities and a "specialist" guest. The showbusiness people often have an edge over the other guest in that they are used to the atmosphere of a TV studio. Ian and Patrick quickly found a way to make the other guest more involved. Explains Ian: "We try to make them feel more at home by making some problems relevant to their specialist knowledge."

Hence the clues which may seem a little obscure to viewers.

The Adventure Game gives viewers the chance to watch other people's processes of deduction and logical thought in action — and maybe even compare their powers of logic with those of the contestants. A lucky few, through pre-recorded answers to a puzzle which runs throughout the show,

can take a greater part in the game.

But that's where viewer involvement in the program ends. According to Ian Oliver, it is just not realistic to film The Adventure Game in front of a live audience or get members of an audience involved. Time is the enemy: filming takes too long to accommodate an audience. "We have to record about three hours of stuff for every show — most of it gets edited out later."

Consolation

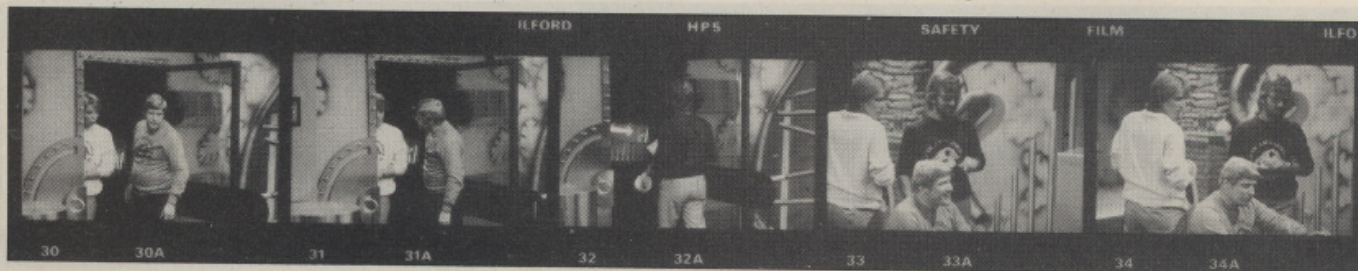
There is, however, one consolation for those who want to do more than just watch The Adventure Game on TV. One of the more popular parts of the show — a puzzle called Drogna — is being marketed as a program for the BBC machine. Acorn Software is manufacturing the game which, although not an adventure, nevertheless requires the use of logic.

Drogna, in which the contestants have to cross a board of different shapes and colours to get a crystal, is one of two segments of The Adventure Game that have

proved extremely popular. The other comes at the end of the programme and is the last hazard the contestants must face before they can escape back to Earth. Called the Vortex, this could also soon be made into a program for the Beeb.

The Adventure Game has obviously come a long way from its beginnings as a "science program for children". But since hitting on the adventure game format, changes have been minimal. The regular characters, for example, have remained unchanged over the three series. But, according to Patrick, the puzzles have in fact become easier as the show has progressed.

Just what will happen to the show after this series is something of a puzzle itself. Patrick, the man who dreams up most of the puzzles, emigrated to Australia soon after I talked to him. He doubts whether the BBC will make another series. Ian Oliver, on the other hand, believes there's still more for Earthlings to puzzle over on Arg. □



The ADVENTURES of MONTY The Mountaineer

De Apibus Semper Dubitandum Est.

"AVALANCHE!"

MONTAGUE MONTAGUE III, DUKE OF BOLTON, HAS ORGANIZED AN EXPEDITION TO CLIMB MOUNT EVEREST, BUT MONTY AND THE TWO OTHER BRITISH CLIMBERS, IAN AND TOM, DID NOT RETURN TO CAMP THE PREVIOUS NIGHT. THE AMERICAN, HANK, TAKES CHARGE OF THE SEARCH PARTY...



"LEE, YOU GO WITH FRED BACK TO BASE CAMP AND GET MORE SUPPLIES. CARL AND I WILL SEARCH FOR THE OTHERS."

"SURE THING, HANK! WE'LL SEE Y'ALL BACK HERE LATER!"

"GUT. DIS MAY VELL BE MY CHANCE TO DISPOSE OF ZIE SCHWEINHUND AMERIKANER!"



NOT FAR AWAY, MONTY, TOM AND IAN ARE TRAPPED AT THE BOTTOM OF A CREVASS.

"DASHED LUCKY REALLY, THAT THIS FISSURE HAS SHELTERED US FROM THE WEATHER. YOU SHARE THE LAST GINGER NUT, CHAPS. I AM SURE THAT AID IS IMMINENT."

"HAVE THE GINGER, TOM, I'LL TAKE THE NUT"



MEANWHILE, AT THE TOP...

"LOOKY HERE WHAT I'VE FOUND, CARL. MONTY'S HAT. THEY MUST BE TRAPPED BELOW."

"AND IN A MINUTE, SCHWEIN, YOU WILL JOIN ZEM IN OBLIVION."



SUDDENLY, THE TWO CLIMBERS HEAR A NOISE ABOVE THEM...

RUMBLE

"GOTT IM HIMMEL!"

"WATCH OUT. AVALANCHE!"

WILL HANK AND CARL SURVIVE THE AVALANCHE? WILL MONTY BE RESCUED? WILL CARL'S EVIL PLANS COME TO FRUITION? WILL THE AARDVARKS REACH THE SUMMIT OF MOUNT PALOMAR BEFORE PETERKINS THE FERRET-STRANGLER? DON'T MISS NEXT WEEK'S EXCITING EPISODE!

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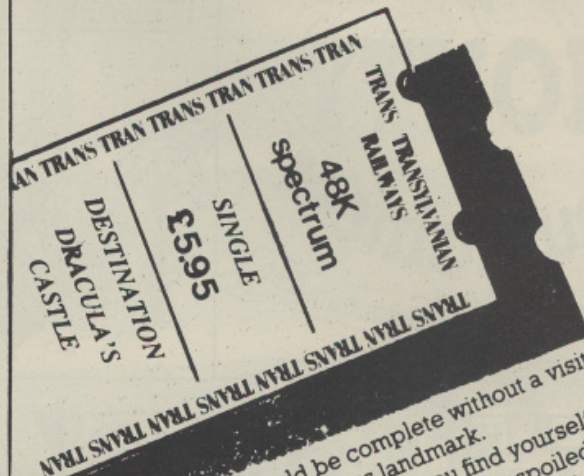
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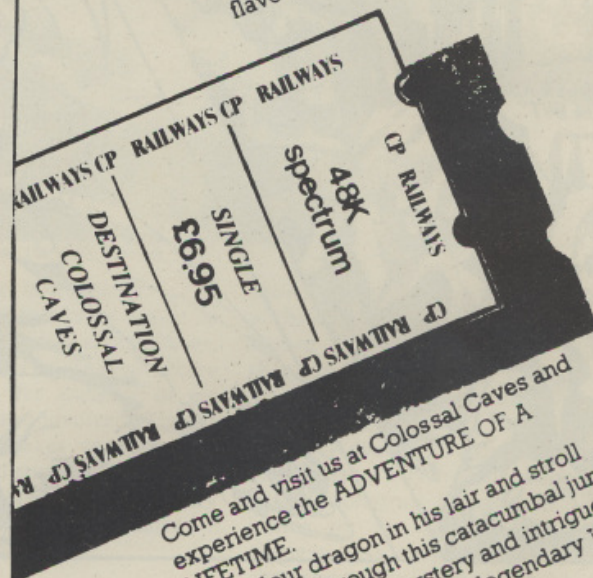
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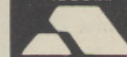
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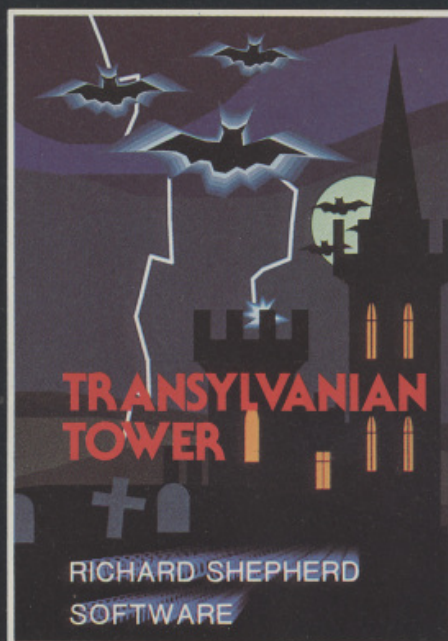
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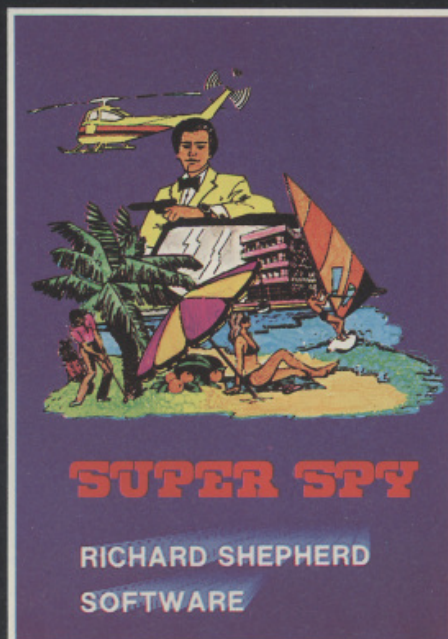
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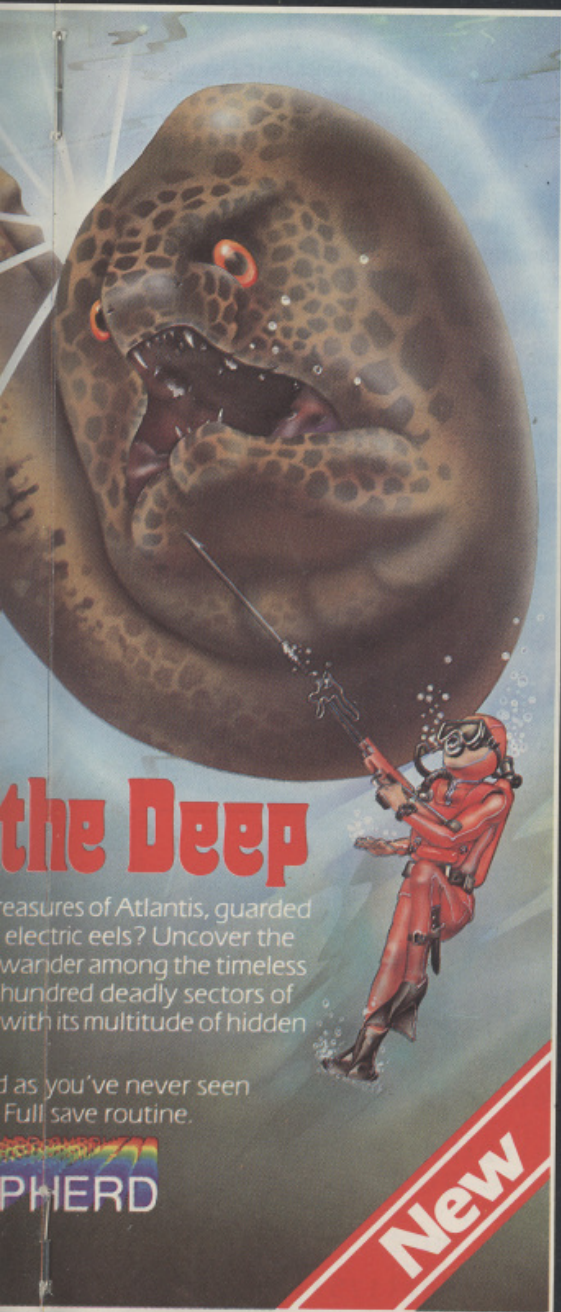
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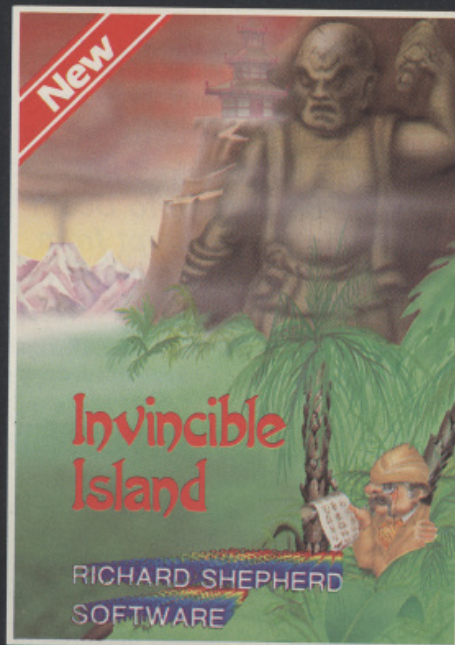


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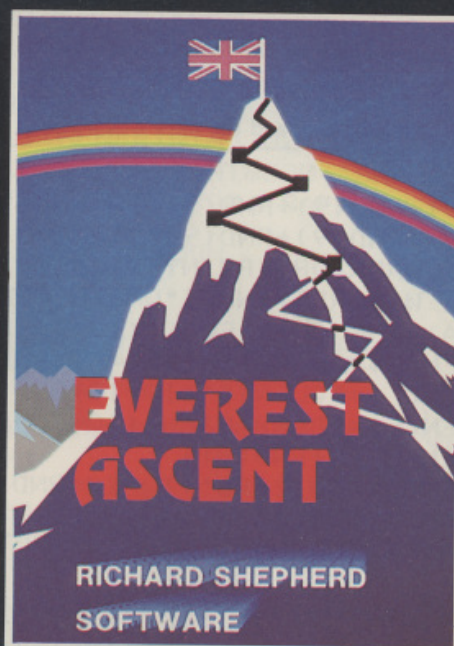
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ADVENTURE PROGRAMS are great fun to write, as you are able to create a world all of your own, with the only restraints being your imagination and the amount of RAM you have. However, adventure programs are also quite difficult to write, so, over the next few months, we will go through examples of building up a simple adventure.

Valley Of Death involves guiding a little man (represented by a \$ symbol) around a small valley. You must help him to fight monsters, travel through swamps and forests, and eventually take him to the depths of the Dark Dungeons of Darganyon to find the key. You must then race back through the dungeons and back to the Palace to unlock a chest and retrieve a magic potion to cure your dying king.

We'll begin writing the program straight away and let the plot build up as we go along. First, and most importantly, we need a character to go battling through the valley. Type in the routine in lines 10-180 (make sure that you leave the line numbers as they stand or you won't be able to fit the program together properly). If you RUN this routine you will be asked what type of character you want to be, and also for your name. Error trapping is included so that if you type in a number not between 1 and 4 your character will be an idiot. Also, if you do not enter a name then your character will be called Mr. 'X'. The STrength, IQ and ENergy of your character are adjusted according to the type of person you are.

Now that we have a character, we need a world for him to live in. One quick word before you enter this routine (lines 190-280). the '\$' symbol is not directly available from the Dragon keyboard and must be entered in this way:

Into the Valley of Death

Brian Lloyd takes the Dragon on a trip into Death Valley in this excerpt from "The Dragon Trainer"

(i) Hold down the SHIFT and CLEAR keys together (ii) Press the @ key (iii) Release the @ key (iv) Release the other keys
This procedure does not always work first time, so you may have to do it twice. One last thing, all the \$ symbols in this routine represent spaces.

When you RUN this routine (if you enter RUN 190 then you do not have to choose a character, etc) you will see a blue box with a zig-zagging path passing through it (don't worry about the OK message appearing in the middle). The path appears in a different position each time you RUN the program, just to break up the tedium a bit. At one end of the path is a keep, and at the other the Palace.

We can now add the lines which tell us

how well the character is doing (lines 360-380). Now that the character is seen to, we can start to move him around (lines 530 and 2300-2450). That's the routine to check which way you want to go, now we need a man to move around, and a routine to move him (lines 30, 410-660 and 790). You can now have great fun racing around the screen with your character, using the keys:

R	T	Y
F		H
C	V	B

We can now add some lines to tell us where the character is (lines 660 to 750).

Racing around the valley obviously uses up some of your energy, so we need the extra lines 390, 400, 490 and 540. Running around in a valley can get pretty boring after a while. The best way to cure this is to populate the valley with a few friendly little monsters whose only desire in life is to eat you (lines 40 and 500).

The routine in lines 2770-2790 chooses a monster, with line 2790 choosing a more dangerous one if your EXperience is over 2000. Lines 2810-2820 invert the letters of the monster's name (ie change uppercase to lowercase letters). If you are a cleric you can turn away undead monsters, so lines 2830-2840 allow this.

The monster's energy is worked out by lines 2850-2870, while lines 2880-3000 allow you to hit the monster (you use the H key to hit — note the time limit in line 2930). The monster retaliates in lines 3010-3030, and the damage routine is lines 3040-3100. Lines 3110-3120 check to see if you have killed the monster. The monsters come from lines 3200-32400. Finally, lines 3770-3780 inform you that you are dead, complete with appropriate tune. □

This program is written in Microsoft Basic — it begins by developing a character to go battling through the maze.

```

10 CLS
70 ST=RND(9)+RND(9)+RND(9):IQ=RND(9)+RND(9)+RND(9)
80 EN=RND(9)+RND(9)+RND(9):ST=ST*5:IQ=IQ*5:EN=EN*6
90 PRINT"1) WARRIOR":PRINT"2) CLERIC":PRINT"3) BARBARIAN"
100 PRINT"4) WIZARD":INPUT"WHICH ONE (1-4)";A
110 IFA<1ORA>4 THEN CL$="FOOL":IQ=IQ-RND(10)
120 IFA=1 THEN CL$="WARRIOR":ST=ST+RND(ST):IQ=IQ+RND(10)
130 IFA=2 THEN CL$="CLERIC":IQ=IQ+RND(10)*2
140 IFA=3 THEN CL$="BARBARIAN":IQ=IQ-RND(5):ST=ST+RND(ST)
150 IFA=3 THEN EN=EN+RND(ST)
160 IFA=4 THEN CL$="WIZARD":IQ=IQ+RND(15)*2:EN=EN+RND(5)
170 INPUT"NAME";NAME$
180 IF NAME$="" THEN NAME$="MR. 'X'"

```

Now that you have a character, you need a world for him to live in.

```

190 CLS
200 PRINT STRING$(32,175);:FOR N=0 TO 7:PRINT CHR$(175);
210 PRINT STRING$(30,32);CHR$(175);:NEXT
220 PRINT STRING$(32,175)
230 A$(1)=CHR$(175)+"#####\#####"+CHR$(175)
240 A$(2)=CHR$(175)+"#/\#####/\#####"+CHR$(175)
250 A$(3)=CHR$(175)+"p#####\#####\#####\k"+CHR$(175)
260 A$(4)=CHR$(175)+"#####\//"+STRING$(20,32)+CHR$(175)
270 J=RND(5)*32:PRINT@J,A$(1);:PRINT A$(2);:PRINT A$(3);
280 PRINT A$(4);

```


*Telling you how
well your
character is
doing.*

```
360 PRINT@352,NAME$;" THE ";CLASS$
370 PRINT384,"ST:";ST;TAB(10);"IQ:";IQ;TAB(20);"EN:";
380 PRINTEN;:PRINT@416,"TR:";TR;TAB(20);"EX:";EX;
```

*Moving the
character around
— the way to
go...*

```
530 GOSUB 2300
2300 A$=INKEY$: IFA$="" THEN2300
2310 IFA$="R" THEND=-33
2320 IFA$="T" THEND=-32
2330 IFA$="Y" THEND=-31
2340 IFA$="F" THEND=-1
2350 IFA$="H" THEND=1
2360 IFA$="C" THEND=31
2370 IFA$="V" THEND=32
2380 IFA$="B" THEND=33
2450 RETURN
```

*...and a routine
for movement.*

```
30 MAN=1056:Z=16
410 MAN=MAN+J+33
440 POKE MAN,36
560 IFPEEK(MAN+D)=111ORPEEK(MAN+D)=92THENMAN=MAN+D:POKE
MAN-D,Z:PATH=1:Z=PEEK(MAN):GOTO660
570 IFPEEK(MAN+D)=11THENMAN=MAN+D:POKEMAN-D,Z:CASTLE=1:Z=
PEEK(MAN):GOTO660
580 IFPEEK(MAN+D)=16THENMAN=MAN+D:POKEMAN-D,Z:PL=1:Z=
PEEK(MAN):GOTO660
650 IFPEEK(MAN+D)<>175THENMAN=MAN+D:POKEMAN-D,Z:Z=PEEK
(MAN)
660 REM SOMETHING WILL GO HERE LATER
790 GOTO440
```

*Telling you where
the character is.*

```
660 IFZ<>11THENCASLE=0
670 IFZ<>16THENPL=0
680 IFZ<>92ANDZ<>111THENPATH=0
700 PRINT@320," "
710 IFPATH=1THENPRINT@320,"SAFE ON PATH"
720 IFCASLE=1THENPRINT@320,"SAFE IN KEEP"
750 IFPL=1THENPRINT@320,"SAFE IN PALACE"
```

Using up energy.

```
390 IF U=1 THEN RETURN
400 U=1
490 GOSUB 360
540 E=E+1:IFE=10THENEN=EN-1:E=0
```

*Introducing the
monsters.*

```
40 PL=1
500 IFRND(4)=2ANDDEAD=0ANDCASLE=0ANDPATH=0ANDPL=0THEN
GOSUB2770
```

*Choosing a
monster...*

```
2770 SOUND10,5:SOUND100,6:RESTORE:IFEX<2000ANDTW=0THEN
FORN=0TORND(19):READMONSTER$,HITS:NEXT
2780 M=0
2790 IFEX>=2000ORTW=1THENFORN=0TORND(19)+20:READMONSTER$,
HITS:NEXT
```

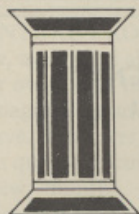
...in lower case.

```
2810 FORN=1TOLEN(MONSTER$):MID$(MONSTER$,N,1)=CHR$(ASC(
MID$(MONSTER$,N,1))+32):IFMID$(MONSTER$,N,1)="@"THEN
MID$(MONSTER$,N,1)=CHR$(128):NEXT:ELSENEXT
2820 PRINT@320,"YOU HAVE MET A ";MONSTER$;
```

Right of clergy.

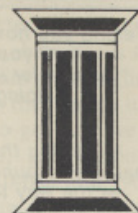
```
2830 IFCLASS$="CLERIC"AND(MONSTER$="mummy"ORMONSTER$=
"wraith"ORMONSTER$="spectre")ANDRND(3)=2THENYZ=1
2840 IFYZ=1THENFORN=0TO2000:NEXT:PRINT@320,"BUT YOU TURN IT
AWAY!":FORN=0TO2000:NEXT:PRINT@320," ":EX=EX+H:YZ=0:
RETURN
```

Continued on page 33



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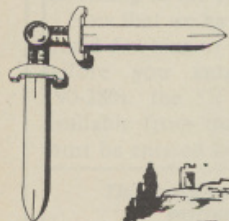
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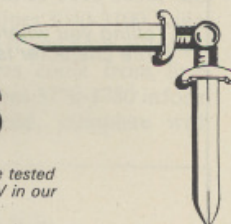


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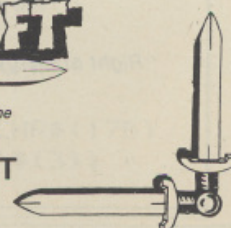
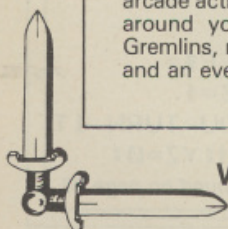
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Continued from 31
The monster's
energy.

```
2850 HITS=HITS+RND(INT(HITS/2)):IFHITS<INT(EN/2)THEN2850
2860 H=HITS
2870 FORN=0TO1000:NEXT
```

Hitting the
monster.

```
2880 PRINT@448,"strike";CHR$(128);"now"
2890 SOUND50,2
2900 A$=INKEY$
2910 PRINT@480,STRING$(28,32);
2920 PRINT@480,"THE MONSTER HAS";HITS;"ENERGY ";
2930 FORN=0TO300:A$=INKEY$:IFA$<>" "THEN2940:ELSENEXT:PRINT@
448,"too";CHR$(128);"slow":FORN=0TO2000:NEXT:PRINT@448,
" ":GOTO2990
2940 REM SOMETHING WILL GO HERE LATER
2960 IFA$="H"ANDRND(2)=2THENG=RND(EN)+RND(ST)*SD:PRINT@448,
"you";CHR$(128);"hit":FORN=0TO2000:NEXT:PRINT@448,G;
"DAMAGE!";:FORN=0TO3000:NEXT:YZ=1
2970 IFYZ=1THENYZ=0:PRINT@448," ":HITS=HITS-G:ELSEIFA$="H"
THENPRINT@448,"you";CHR$(128);"missed":FORN=0TO2000:
NEXT:PRINT@448,STRING$(30,32);:YZ=0
2980 IFG>0THENSOUND150,2:G=0:ELSESOUND200,2
2990 PRINT@480,"THE MONSTER HAS";HITS;"ENERGY ";
3000 IFHITS<=0THEN3110
```

Monster
retaliates.

```
3010 SOUND200,2:PRINT@448,"the";CHR$(128);"monster";CHR$
(128);"strikes":FORN=0TO2000:NEXT:PRINT@448," "
3020 IFRND(2)=1THENM=RND(HITS):PRINT@448,"and";CHR$(128);"
hits";:SOUND10,2:FORN=0TO2000:NEXT:ELSEPRINT@448,"and";
CHR$(128);"misses";:SOUND50,2:YZ=1
3030 IFYZ=1THENFORN=0TO2000:NEXT:PRINT@448," ":YZ=0
```

Damage routine.

```
3040 EN=EN-M
3050 IFM>0THENPRINT@448,"DOING";M;"DAMAGE!";:FORN=0TO2000:
NEXT:PRINT@448," "
3060 GOSUB360
3070 M=0
3080 IFEN<=0THEN3770
3100 HITS=HITS-1:EN=EN-1:GOTO2880
```

Is the monster
dead?

```
3110 PRINT@448," ":PRINT@480,STRING$(31,32);:PRINT@320,
"YOU'VE KILLED IT!":FORN=225TO250:SOUNDN,1:NEXT:EX=EX+
H:EN=EN+RND(INT(H/2))
3120 FORN=0TO2000:NEXT:PRINT@320," ":IFEN>400THENEN=EN-RND(
INT(H/2)):RETURN:ELSERETURN
```

Range of
monsters.

```
3200 DATA"BANDIT",20,"BERSERKER",20,"BUGBEAR",60,"CARRION
CRAWLER",60,"COCKATRICE",100,"DWARF",20,"DOPPLEGANGER",
80,"ELF",20,"FIRE BEETLE",20
3210 DATA"GARGOYLE",80,"GELATINOUS CUBE",80,"GIANT ANT",
40,"GIANT CENTIPEDE",5,"GIANT RAT",10,"GNOLL",40,
"GNOME",10,"GOBLIN",10,"GREY OOZE",60
3220 DATA"HIPPOGRIFF",65,"HOBGOBLIN",15,"BLACK PUDDING",
200,"CHIMERA",180,"DJINNI",145,"DRAGON",220,"GIANT",
200,"GRIFFON",140,"HYDRA",160
3230 DATA"WEREBEAR",120,"MANTICORE",125,"MINOTAUR",120,
"MUMMY",105,"OGRE",120,"OWL BEAR",110,"PURPLE WORM",300
3240 DATA"SPECTRE",120,"TROLL",130,"VAMPIRE",180,"WIGHT",
60,"WRAITH",80,"HELL HOUND",140
```

You're dead.

```
3770 PRINT@320,"YOU'RE DEAD!":IFK=1THEN3770
3780 PLAY"O1V31T2L46GL86GL4B-AA6GF+G":K=1:GOTO3770
```


action. Players are limited by what their characters can do and this is determined when the character is first created. Each role-playing system generates characters in its own manner, but the basic ideas remain the same.

A role-playing system attempts to label human characteristics and divide them into several broad categories, such as strength, dexterity, stamina and logic. These can then be determined for each character using die rolls. The rolls produce a statistical curve not unlike the scatter of real human characteristics. Players then choose their character's name, profession and beginning skills. Skills and some characteristics can be developed as the character gains experience and training.

Fantasies

Once created, the character participates in various adventures and in the process attempts to gain in experience, skills and wealth. The fun is not only in the excitement of the adventures, although this can be quite considerable, but in watching the various characters develop gradually over the months. Each player will develop his character according to his own fantasies and the type of role he enjoys playing. The interaction between the characters is a lesson in group dynamics and can be a major element of enjoyment, and also friendly competition.

Role-playing games attract a wide age

Star Frontiers

Character's name: Bogwart Gutslinger Race: Yazirian Sex: M Hand: L
Walk: 10m Run: 30m Hourly: 4km Suit: Screen:
STR/STA: 20 / 20 PS: 1 Racial Abilities: %
DEX/RS : 60 / 60 IM: 6 Battle Rage 5
INT/LOG: 49 / 61 RW: 30 Gliding, Night Vision
PER/LDR: 65 / 65 M: 30 Encumbrance: 10 kg. (norm) 20 kg. (max)

Weapon	DMG	Basic %	PB	S	M	L	E	Ammo
1)								
2)								
3)								
4)								
5)								
P.S.A.	Skill	Level						Cash: 265
MILITARY:	Beam Weapons	1 2 3 4 5 6						EXPERIENCE:
	Gyrojet Weapons	1 2 3 4 5 6						
	Melee Weapons	1 2 3 4 5 6						
	Projectile Weapons	1 2 3 4 5 6						
	Thrown Weapons	1 2 3 4 5 6						MEDICAL:
	Demolitions	1 2 3 4 5 6						
	Martial Arts	1 2 3 4 5 6						
TECHNICAL:	Computer	1 2 3 4 5 6						ENERGY:
	Robotics	1 2 3 4 5 6						
	Technician	1 2 3 4 5 6						
BIOSOCIAL:	Environmental	1 2 3 4 5 6						EQUIPMENT:
	Medical	1 2 3 4 5 6						
	Psychosocial	1 2 3 4 5 6						
Notes:								

Introducing Bogwart Gutslinger, a Yazirian with the ability to see in the dark

```
(22)"IM: ";im:IFRACE%=2PRINTTAB(37)"Lie Detection";TAB(6
8)"5"ELSEIFRACE%=3PRINTTAB(37)"Comprehension";TAB(68)"15"EL
SEIFRACE%=4PRINTTAB(37)"Battle Rage";TAB(68)"5"ELSEPRINT
610PRINT"INT/LOG: ";ability(4);TAB(14)"/ ";ability(5);TA
B(22)"RW: ";rw:IFRACE%=2PRINTTAB(37)"Elasticity";ELSEIFRAC
E%=3PRINTTAB(37)"Ambidexterity";ELSEIFRACE%=4PRINTTAB(37)
"Gliding, Night Vision";ELSEPRINT
620PRINT"PER/LDR: ";ability(6);TAB(14)"/ ";ability(7);TA
B(22)"M: ";m:TAB(37)"Encumbrance: ";INT(ability(0)/2+.5)
" kg. (norm) ";ability(0) kg. (max)";
630PRINT"Weapon";TAB(16)"DMG";TAB(23)"Basic %";TAB(31)"P
B";TAB(37)"S";TAB(42)"M";TAB(47)"L";TAB(52)"E";TAB(58)"Ammo"
640PRINT"-----";PRINT"1)";PRINT"2)";PRINT"
3)";PRINT"4)";PRINT"5)";PRINT
650PRINT"P.S.A. ";TAB(11)"Skill";TAB(32)"Level";TAB(47)"Cas
h: ";250+RND(100)
660PRINT"-----";PRINT"MILITARY: ";TAB(11)"Be
am Weapons";TAB(32)n$TAB(47)"EXPERIENCE: ";
670PRINTTAB(11)"Gyrojet Weapons";TAB(32)n$;PRINTTAB(11)"
Melee Weapons";TAB(32)n$;PRINTTAB(11)"Projectile Weapons";T
AB(32)n$
680PRINTTAB(11)"Thrown Weapons";TAB(32)n$TAB(47)"MEDICAL
: ";PRINTTAB(11)"Demolitions";TAB(32)n$;PRINTTAB(11)"Marta
l Arts";TAB(32)n$
690PRINT"TECHNICAL: ";TAB(11)"Computer";TAB(32)n$TAB(47)"
ENERGY: ";PRINTTAB(11)"Robotics";TAB(32)n$;PRINTTAB(11)"Tec
hnician";TAB(32)n$
700PRINT"BIOSOCIAL: ";TAB(11)"Environmental";TAB(32)n$TAB
(47)"EQUIPMENT: ";PRINTTAB(11)"Medical";TAB(32)n$
710PRINTTAB(11)"Psychosocial";TAB(32)n$;PRINTSTRING$(75,
" ");PRINT"Notes: ";VDU1,12;VDU3;ENDPROC
720
730DEFPROCworkdisplay
740PRINT"Name: ";TAB(26)"Race: ";PRINT"Handedness: ";TAB(2
6)"Sex: ";PRINTTAB(26,4)"PS: ";PRINTTAB(26,5)"IM: ";PRINT
TAB(26,6)"RW: ";PRINTTAB(26,7)"M: ";
750PROCabledisplay:PRINTTAB(0,9)STRING$(39,CHR$(255));END
PROC
760
770DEFPROCabledisplay
780PROCskill:PRINTTAB(30,4);ps:PRINTTAB(30,5);im:PRINTT
AB(30,6);rw:PRINTTAB(30,7);m
790PRINTTAB(0,3);FORi%=0TO6STEP2:PRINTTAB(i%);TAB(3)"/
";TAB(i%+1)";TAB(11)"/";TAB(i%+1);NEXT;ENDP
ROC
800
810DEFPROCwait(delay)*FX21,0
820dummy=INKEY(delay*100);ENDPROC
830
```

```
840DEFNcase(a#)IFA#>="a"ANDa#<="z"=ASC(a#)-32ELSE=ASC(
a#)
850
860DEFNquick(message$,low$,high$)
870LOCALanswer$,X,Y:X=POS:Y=VPOS:IFlow#<>"A"ANDlow#<>"1
"either=TRUE ELSEeither=FALSE
880low=Ncase(low$):high=Ncase(high$):*FX21,0
890REPEAT:REPEAT
900PRINTTAB(X,Y)message$;:answer$=GET$:answer=Ncase(an
swer$)
910UNTILNDeither OReither ANDanswer=low ORanswer=high
920UNTILanswer=low ANDanswer<=high
930IFanswer>=ASC("A")ANDanswer<=ASC("Z")=answer-64ELSE=
answer-48
940
950DEFPROCinitialize
960X=RND(-TIME):end=FALSE
970DIMpotential(19),modifier(4,6),ability(7),go$(2),spe
ed$(6,2),temp(7),ability(7),able$(7),race$(6)
980n$="1 2 3 4 5 6";menu$="Your choice:ok$="Is this co
rrect?"
990FORindex=0TO19:READpotential(index);NEXT
1000DATA30,30,35,35,40,40,40,45,45,45,45,50,50,50,55,55,
60,60,65,70
1010FORrace=2TO4:FORindex=0TO5STEP2:READmodifier(race,in
dex);NEXT;NEXT
1020DATA5,-5,0,-5,5,0,-10,5,5
1030FORindex=0TO7:READability$(index);READable$(index);N
EXT
1040DATA Strength,STR,Stamina,STA,Dexterity,DEX,Reaction
Speed,"RS ",Intuition,INT,Logic,LOG,Personality,PER,Lead
ership,LDR
1050FORrace=0TO4:READrace$(race);NEXT
1060DATA " ",Human,Dralasite,Vrusk,Yazirian
1070FORpace=0TO2:READgo$(pace);NEXT
1080DATA Walk:,Run:,Hourly:
1090FORrace=1TO5:FORpace=0TO2:READspeed$(race,pace);NEXT
: NEXT
1100 DATA10m,30m,5km,"5m ",20m,3km,15m,35m,6km,10m,30m,4
km,10m,20m,3km
1110ENDPROC
1120
1130DEFPROCempty
1140name$="":race%=0:hand$="":sex$="":ps=0:im=0:rw=0:m=0
:ENDPROC
1150
1160DEFPROCwipe PRINTTAB(0,10):tab=VPOS:FORx%=1TO13:PRIN
TSTRING$(40," ");NEXT:PRINTTAB(0,tab);ENDPROC
1170
1180DEFPROCtitle
1190CLS:FORx%=0TO1:PRINTTAB(8,9+x)CHR$(141)"Star Frontier
":NEXT;ENDPROC
```


◁ range. Their style seems to reflect the maturity of the players more than the subject. Role-playing can be a group of bullies looking for a fight, or at the other extreme, an exercise in mental agility and teamwork. The openness of the system allows for effective use of lateral thinking (creativity) from players and gamesmaster, an attribute not always of value in boardgames.

Elf pretensions

You might ask what place micros have in the lives of men who gather in groups pretending to be elves. Computers would seem to be, with their unyielding submission to precise rules, out of place in the flexible world of role-players. In reality, good rules are precise in many areas — exactly those that often become chores which detract from the game. Computers are adept at taking over these mundane tasks. I will confine myself for now to one aspect, the character generator, probably the easiest game assistance program to write and possibly the most useful.

Creating characters normally consists of a fair amount of die rolling, then calculating characteristics based on the rolls and filling out an individual character sheet. This can be relatively quick for some games and quite time-consuming for others — a significant part of an evening can be spent kitting out new players with characters. A gamesmaster may have to

create large numbers of characters to fill his scenarios and has even greater need for computerised help.

Granddaddy

Star Frontiers is one of the most recent science fiction role-playing games and comes from TSR, the originator of Dungeons & Dragons and the granddaddy of them all. The cover art does not suggest that it is a game for the serious sci-fi fan, but further investigation will reveal, behind the comic-book facade, probably the most polished role-playing system currently available. Star Frontiers uses the best of D&D, Runequest, Traveller, Top Secret and others to produce a system more consistent and logical than its progenitors — granted, the first three available scenarios are D&D on another planet and contain, for my taste, far too many confrontations with monsters. Fortunately, our group has a gifted gamesmaster who designs his own scenarios.

The rules for developing and using skills are extremely clever and allow excitement even when the characters are not engaged in combat. Our group successfully concluded a mission the other evening by tapping into the enemy's computer. Using various characters' skills we were able to find and make our way to the terminal, disable security systems and change a vital program. Not a single laser was fired — best of all, it was fun.

The following program will allow you to generate characters according to the rules of Star Frontiers (I'm afraid it won't be of much use without the game). It will "roll" general characteristics and allow you to choose the race of your character (several friendly aliens are available if you tire of being a boring human). You may trade some characteristics for others and choose a name, sex and handedness (this is considerably more choice than you had at your own birth). The results can then be printed in the form of a character sheet which is used in the game.

Most inputs are single key press and are well-protected, both upper and lower case being acceptable. The program was designed to be used by gamers who are not necessarily knowledgeable about computers and therefore nothing in it should frighten anyone.

Menus

But, for those of you with computers, a bit about the program. One of the most used routines is FNQuick which returns a number from 1 to 26 for letters or 0 to 9 for numbers, and is used in menus. Character generators tend to have many menus and if you want protected inputs it is easier to write one routine to screen them all. The program is currently set up to work with an Epson printer with parallel interface but would require very few alterations to work on most other printers. □

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YOUR ADVENTURES

This month you can play Mage Cage on the Spectrum 16K (**this page**), a graphics adventure written by Quicksilver

programmer Mike Moscoff. Look out for the Dragons and Traps while you search for the sword to defend yourself. Your task is to find the Fusor and destroy it in order to save the Earth. If you want to standardise input into your adventures, Simon Lane shows you how on **page 42**. His routine for Commodore and Sinclair users converts a sentence into two three-letter words. Separate listings are given for both machines. Vic 20 owners can search for the Giant's gold (**page 43**), a text adventure which needs a minimum 8K expansion. It uses print statements and should be easily transposable to other micros. A large part of the space taken up by adventure games is used to store messages. It is therefore essential to store them as efficiently as possible. Andy Mitchell shows BBC users how to do this by placing messages in one large database at the end of the program and using a single procedure to extract the required message (**page 44**).

Send us your adventure listings — modules which readers can incorporate into their own games, short adventures and useful programming routines are all welcome. Please send us a printout and cassette along with a general description of the program and details of how it is constructed and can be used. If you want us to return your program, enclose a stamped, addressed envelope. If you have any queries on the listings, write to the appropriate author, Your Adventures, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD

Play Mage Cage on the Spectrum

A 16K Spectrum graphic adventure by Quicksilver programmer Mike Moscoff

THE AETHANES, NASTIES from the Nth Dimension, threaten to destroy Earth. You must enter the Valley of Shadows, and find and destroy the fusor, a weird object that holds open the gateway between the Dimensions. The valley comprises 25 arenas, or rooms.

Avoid or kill the evil Dragons: there are four types — Magenta, Green, Blue and Yellow. The Yellow Dragons have the worst bite, and need four strikes with the sword to kill them. Watch out for the Traps, which can block, exhaust or kill you. Look for any useful objects (eg the sword). To pick them up, just touch them. To move, use the cursor keys (5-8). To use the sword (to strike left or right), press Caps Shift and 5 or 8. Note: you must first find the sword! To get help, press 'H' (for info about the traps).

This program has been horribly compressed. Most numbers have been replaced by single-letter variables: O=0, L=1, B=2, etc... see list of variables. Many character variables hold numeric data: "ABCD" translates to: print trap number 1(A) using pattern 2(B) starting at position Y=3(C), X=4(D). FN n converts characters to numbers. FN c\$ converts numbers to characters.

Problems: don't mistake Hs (10) for Ms (100). Lines 4400-4625 (and others) use weird characters: @ (Symbol Shift & 2) to represent 0, / (Symbol Shift & Y) to represent 28, ((Extended Mode, Symbol Shift & Y) to represent 27,) (Extended Mode, Symbol Shift & U) to represent 29. Typing in lines 4400-4470 is easier if you enter the letters in groups of three: ... EYE ... HAL. POKE 23693,7 sets INK 7, PAPER 0. POKE 23693,56 set INK 0, PAPER 7, POKE 23658,8 sets Capitals lock. USR 3280 scrolls up 1 line.

Program routines

10 Initial setup & intro
20 Setup new game
30 Setup new room
40 You move
50 Alien move (or delay)
80 Score & end checks
100 Alien move sub/routine
300 Your move s/r
400 Sword fight s/r
500 Trap action s/r
600 Objects s/r
670 Print obj inventory
680 Print object
690 Convert attr colour to object number
700 Replace lost object
900 Print messages s/r
1000 Lose game (or newlife)

1100 Win game
1200 Scores & end
3000 Select new room
4000 Setup new room
4020 Setup traps — barriers
4030 Setup traps — mazes
4050 Setup objects
4080 Setup 'final' room
4100 Setup alien
4300 Setup you
4400 Trap patterns s/r
4600 Room data
7000 Define vars — temp
7500 Define vars — perm
7600 Define Special chars
9000 Introduction
9100 Controls display
9200 Traps info ('help')
9900 Cls & header s/r
9920 Delay s/r
9930 Wait s/r
9940 Object name s/r
9950 Trap name s/r
9960 Trap info s/r

Numeric vars

DC	remaining lives
DI	die flag
OK	win flag
PO	power (strength)
RO	room number
ROO	old room no
SC	score
ST	top score
T	alien way flag
TN	alien number
TR	trap number
TX, TY	alien x,y position
TXO, TYO	alien old pos
UX, UY	your x,y position
UXO, UYO	your old pos
B	2
C	3
D	4
E	5
F	6
G	7
H	10
I	20
J	30
K	40
L	1
M	100
O	0
V	.003
W	.01

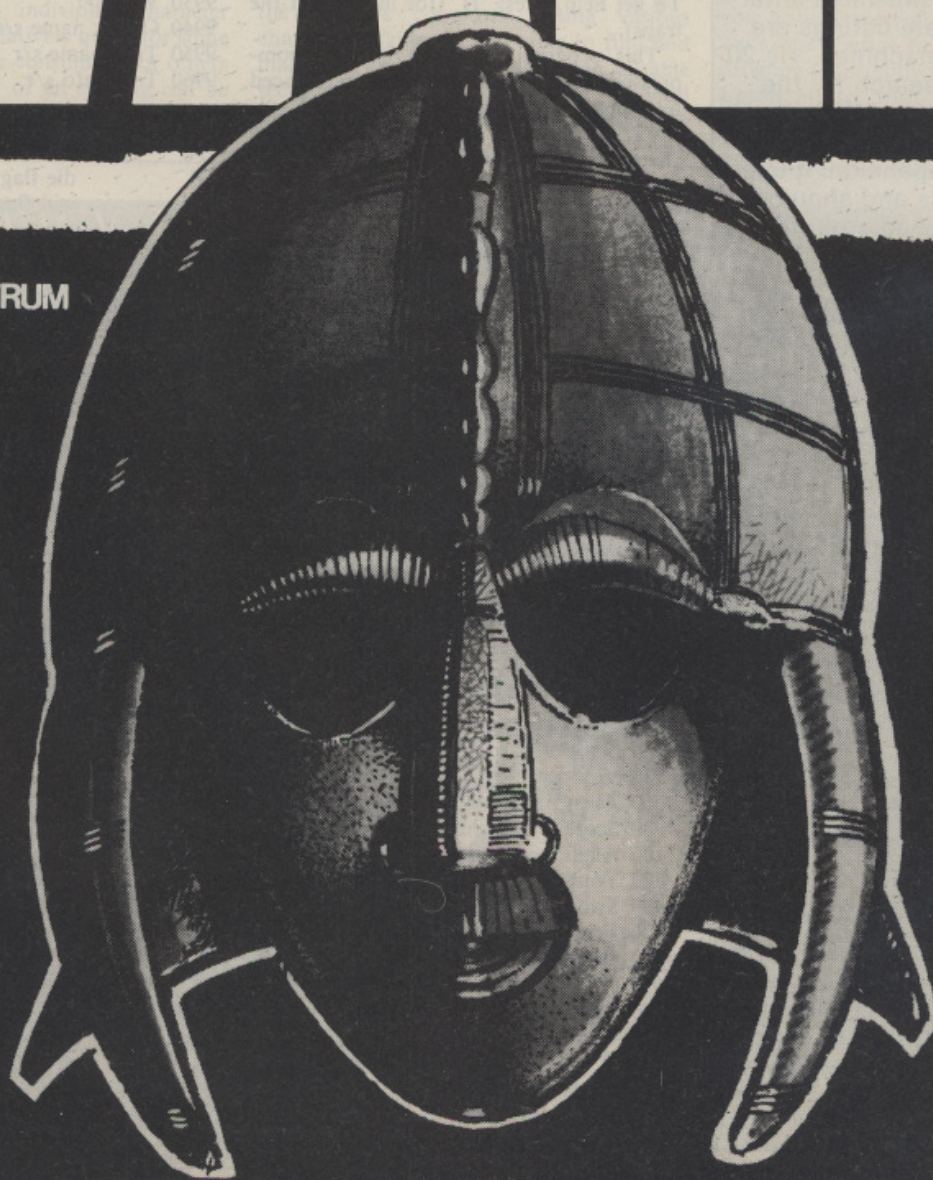
temporary:

A, N, P, Q, X, Y

User defined chars

line char:
105 "D"
106 "E"
300 "H", "B"
301 "G", "C" ▷

48K SPECTRUM



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PCWK 38

310 "B"
315 "C"
320 "A"
325 "A"
1020 "D"
4080 "N"

7500 "A", "D"

Alphabetic vars

KS blank line (32 chars)
NS message pass var
OS objects array

QS trap & object colours
RS room path array
SS, TS alien chars (new, old)
US, WS your chars (new, old)
ZS inkey response
temporary: AS, BS, NS, ZS.

```

9 REM MAGECAGE37 @M03C0FF '83
10 CLEAR 32599: DEF FN R(A,0) =
INT (RND*(A+0)): DEF FN N(Z$)=CODE
Z$-64: DEF FN C$(0)=CHR$(0+64)
15 GO SUB 7500: GO SUB 9000: G
O SUB 7600: GO SUB 9100
20 GO SUB 7000
30 GO SUB K+M
40 GO SUB J+H
50 IF NOT TN THEN GO SUB 9920:
IF RND<R0/M THEN GO SUB 4150
55 IF TN THEN GO SUB M
60 PRINT INK F: OVER D: AT I, J-
D, SC: FLASH PO<M: AT I, I-B, PO: "
: IF DI OR PO<L THEN GO TO 1000
61 IF OK THEN GO TO 1100
65 IF UX=L OR UX=J OR UY=D OR
UY=I-C THEN GO TO J+M
95 GO TO K
100 IF T THEN LET TX=TX+(TX<UX)
-(TX>UX)+FN R(1.4,-.2): LET T$="
*"
105 IF NOT T THEN LET TY=TY+(TY
<UY)-(TY>UY)+FN R(1.4,-.2): LET
T$="*"
110 IF ATTR (TY, TX)>63 THEN LET
TY=TYO: LET TX=TXO
120 PRINT INK B: AT TYO, TXO, S$:
INK B+TN: AT TY, TX, T$
150 IF TX=UX THEN IF TY=UY THEN
BEEP U, J: LET PO=PO-TN+E
190 LET TXO=TX: LET TYO=TY: LET
S$=T$: LET T=NOT T: RETURN
300>LET Z$=INKEY$: IF Z$=CHR$ 8
THEN LET N=UX-L: LET Z$="-": LE
T U$="*": GO SUB K+H: GO TO 340
301 IF Z$=CHR$ 9 THEN LET N=UX+
L: LET Z$="+": LET U$="*": GO SU
B K+H: GO TO 340
302 IF Z$="H" THEN GO SUB 9000:
GO SUB 9200: GO TO J
305 IF Z$<"5" OR Z$>"8" THEN GO
TO 9920
310 IF Z$="5" THEN LET UX=UX-1/
X<L): LET U$="*"
315 IF Z$="8" THEN LET UX=UX+1/
X<J): LET U$="*"
320 IF Z$="6" THEN LET UY=UY+(U
Y<17): LET U$="*"
325 IF Z$="7" THEN LET UY=UY-(U
Y>D): LET U$="*"
330 LET A=ATTR (UY, UX): IF A>63
THEN GO SUB E+M: BEEP U, K+A
340 PRINT INK B: AT UYO, UXO, U$:
INK G: AT UY, UX, U$: BEEP U, UY: LE
T PO=PO-L
390 LET UXO=UX: LET UYO=UY: LET
U$=U$: RETURN
400 IF O$(B)<>"e" THEN RETURN
401 LET A=ATTR (UYO, N): IF A>12
8 THEN LET OK=(R0=I): GO TO 410
404 IF A=70 THEN IF RND<L/H THE
N LET N$="YOU BROKE THE SWORD!":
GO SUB J+J: LET A=B: GO TO G+M
405 IF A>63 AND A<>68 THEN RETU
RN
410 PRINT INK E: AT UYO, N: Z$
420 BEEP U, J: LET PO=PO-L: IF T
N THEN IF N=TX AND UYO=TY THEN B
EEP U, K+H: LET SC=SC+TN: LET TN=
TN-L: IF NOT TN THEN BEEP L/H, K+
I: PRINT INK B: AT TY, TX, T$
430 PRINT INK B: AT UYO, N: Z$
445 RETURN
500 IF A>127 THEN LET A=G: LET
DI=L: LET N$="DON'T TOUCH IT! -
DESTROY IT!": GO SUB J+J: RETURN
505 IF A>71 THEN GO TO F+M
510>LET A=A-64: GO SUB 690: IF
A=B THEN IF RND<U THEN LET N$=("
USE" AND O$(B)<>"e")+("FIND" AND
O$(B)<>"e")+("SWORD": GO SUB J+J
513 IF A<C THEN LET UX=UXO: LET
UY=UYO: RETURN
515 IF O$(A)="e" THEN IF RND<L/
H THEN LET N$="OBJECT IS ALL USE

```

```

D UP!!!!": GO SUB J+J: GO TO G+M
520 IF O$(A)="e" THEN RETURN
530 IF A=C THEN LET PO=PO-I
540 IF A>C THEN LET DI=L
545 RETURN
600 LET N$="": LET A=A-72: GO S
UB 690: LET O$(A)="e": LET SC=SC
+A+H: PRINT OVER O: AT UY, UX: "
620 IF A=L THEN LET PO=H+M: LET
N$="REFRESHES THE PARTS..."
670 LET Y=I: FOR A=L TO E: LET
X=G+A+L: IF O$(A)="e" THEN GO SU
B 680: BEEP U, A
675 NEXT A: GO SUB J+J: RETURN
680>PRINT BRIGHT L: OVER O: INK
FN N(O$(A)): PAPER L: AT Y, X: CHR
$(157+A): RETURN
690 FOR N=L TO E: IF A=FN N(O$(
N)) THEN LET A=N
695 NEXT N: RETURN
700 PRINT FLASH L: INK B: AT I, G
+A+L: "": BEEP B, -H: LET X=FN R(
D, F): IF X=R0 THEN GO TO 705
705 LET O$(A)=FN C$(X): LET N$=
"FIND ANOTHER IN ROOM "+STR$ X:
GO SUB J+J: BEEP L, O: RETURN
900 PRINT OVER O: INK D: AT 21, O
: K$: AT 21, 16-LEN N$/B, N$: RETURN
1000>LET DI=L: OVER O: PRINT FLA
SH L: AT UY, UX: "+": BEEP B, -H: IF
PO>O THEN GO SUB 9950: LET N$="
KILLED BY THE "+N$: GO SUB J+J
1010 BEEP C, -I: LET DC=DC-L: IF
DC THEN LET N$="LIVES: "+STR$ DC:
GO SUB J+J: LET PO=PO+(M+(J-R0)
AND PO<L): LET R0=G+L: LET DI=O
: LET UX=H+E: LET UY=H+B: BEEP B
, O: GO TO J
1020 LET N$="INVASION!": GO SUB
J+J: FOR N=O TO M: PRINT INK RND
+E+B: AT RND+H+E, RND+J+L: "": BEE
P U, K-N/B: NEXT N: GO TO J+K
1100 BEEP L, K: LET SC=SC+M: LET
N$="THE GATES CLOSE": GO SUB J+J
1150 FOR N=O TO F: INK G-N: FOR
X=O TO J: PLOT X+D, O: DRAW O, 175
: PLOT 250-X+D, O: DRAW O, 175: BE
EP U+(N+X=O), X+B: LET Y=USR 3280
: NEXT X: NEXT N
1200>BEEP B, K: GO SUB 9900: LET
N$="EARTH IS "+("SAVED!" AND OK)
+("LOST!!" AND DI)
1220 LET Z$="": IF SC>ST THEN L
ET ST=SC: LET Z$=("AND" AND OK)+
("BUT" AND DI)+" YOU GOT"
1230 PRINT FLASH L: INK F: AT E, H
-L, N$: AT G+L, H+L: "GAME SCORE: "; A
T H, H+E, SC: INK E: AT H+E, H+L, Z$:
AT I-B, H+L: "HIGH SCORE: "; AT I, H+
E, ST
1260 PAUSE O: INPUT "PLAY AGAIN
Y/N ": Z$: IF Z$="Y" THEN GO TO I
1290 GO TO 9999
3000 BEEP U, I: LET A=L+(UY=D)+(B
AND UX=J)+(C AND UY=I-C)
3005 RESTORE 4600+R0: READ Z$: L
ET P=FN N(Z$(A)): IF NOT P THEN
PRINT INK B: INVERSE L: AT I+L, H:
" NO ENTRY ": BEEP U, H: GO TO K
3010 LET R0=R0: LET R0=P
3011 IF A=L THEN LET IX=-1
3012>IF A=B THEN LET UY=H+F
3013 IF A=C THEN LET UX=B
3014 IF A=D THEN LET UY=E
3020 GO TO J
4000 GO SUB 9900: LET P=239: LET
Q=111: BRIGHT L: INK L: PLOT G+
L, J+B: DRAW PAPER L: P, O: DRAW PA
PER L, O, Q: DRAW PAPER L: -P, O: DR
AW PAPER L, O, -Q: INK E
4010 PRINT AT I-L, L: "ARENA INV
EN POWER SCORE": INK F: AT I,
C, R0: IF R$(R0)=" THEN LET R$(
R0)="A": LET SC=SC+R0
4020 INK F: RESTORE 4600+R0: REA
D Z$: LET A$=CHR$ 151: LET B$=A$
+A$: LET X=O: LET Y=O: GO SUB 44

```



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00
4021 IF Z$(L) = "e" THEN LET X=L:
GO SUB 4420
4022 IF Z$(B) = "e" THEN LET Y=D:
GO SUB 4410
4023 IF Z$(C) = "e" THEN LET X=J-L:
GO SUB 4420
4024 IF Z$(D) = "e" THEN LET Y=M+F:
GO SUB 4410
4030 READ Z$: LET A=FN N(Z$(L)):
LET P=FN N(Z$(B)): INK FN N(Z$(
A)): LET A$=CHR$(150+A)
4031 LET B$=A$: FOR N=L TO D: LE
T B$=B$+B$: NEXT N: LET X=0
4032 LET Y=0: IF P<F THEN LET Y=
FN N(Z$(C)): LET X=FN N(Z$(D))
4035 GO SUB 4400+P*M: IF Z$(LEN
Z$)<"e" THEN GO TO 4030
4050 LET A=0: FOR N=L TO E: IF R
O=FN N(O$(N)) THEN LET A=N
4051 NEXT N: LET N$=K$: IF NOT A
THEN GO TO 4070
4055 LET Y=FN R(H,F): LET X=FN R
(I,F): IF ATTR(Y,X)>63 THEN GO
TO 4055
4060 GO SUB 680: GO SUB 9940: LE
T N$="GET THE "+N$: GO SUB J+J
4070 GO SUB 670: INK G: BRIGHT 0
4080 IF RO=I THEN PRINT BRIGHT L
: INK E: FLASH L: AT H-L,H+E,"@
4100 IF TN THEN LET TN=TN+(TN<D)
: GO SUB 4155: GO TO 4300
4105 GO SUB 4150: GO TO 4300
4150 LET TN=FN R(RO/F,.7): IF NO
T TN THEN RETURN
4155 LET TY=FN R(H,F): LET TX=FN
R(I,F): IF ATTR(TY, TX)>63 THEN
GO TO 4155
4160 GO SUB 190: PRINT INK B+TN:
AT TY, TX, T$: RETURN
4300 LET UY=UY: LET UX=UX: PRI
NT FLASH L: AT UY, UX: U$: BEEP INK
EY$="": RO: PRINT AT UY, UX: U$: OV
ER L: RETURN
4400 LET N$="DABDIBERABEIBPABP1BQ
ABQ1B": GO TO 4485
4410 FOR X=L TO J STEP B: PRINT
AT Y+L,X;A$: AT Y,X+L;A$: NEXT X:
RETURN
4420 FOR Y=D TO H+F STEP B: PRIN
T AT Y,X+L;A$: AT Y+L,X;A$: NEXT
Y: RETURN
4440 LET N$="AKBBCCBRACHACOBDOGAE
JEFRCGBEGNBHPIIC": GO TO 4485
4450 LET N$="EAKAECBACBFABICCEAC
DACFACHACLADECDADADADADJCEAREDA
EFAHRAELAFCAFBBFAFIBFLAGAGECGEGL
AHAK": GO TO 4485
4460 LET N$="EBCERFFIAFLAFXAF/AG
BAGEDGNAGUBGYAGIAHJAHPCIMCIZCJDB
JSAJWBKIQUAK/ALCDLKALRLIAMN
BMTAMXBHIANBANGANJANVANJOMBOTAG
UAD[APIDPUBP/B": GO TO 4485
4470 LET N$="EJDEYEFCEFOCGKAGSBG
IAHBBHBHBLAHXAIHAITDJAJJCKFAKHA
KODKYBLHALMALUBAMGAMANDENLANR
ANYAN[AOBAOHAOPAOIAPBFPSCPXC"
4475 GO TO 4485
4480 LET N$="FREGZAHGCIXBJNEKJCL
XEMCF"
4485 FOR N=L TO LEN N$-B STEP C:
PRINT AT FN N(N$(N))+Y, FN N(N$(
N+L))+X;B$( TO FN N(N$(N+B)))
4486 NEXT N: RETURN
4490 FOR Y=E TO H+C STEP D: FOR
X=C TO J-B STEP B: PRINT AT Y,X;
A$: AT Y+B,X+L;A$: NEXT X: NEXT Y
: RETURN
4501 DATA "EFBE", "CG", "AFE"
4502 DATA "ACE", "CH", "FEGI", "DB
AIE"
4503 DATA "BDE", "FEGIE"
4504 DATA "CIE", "BDDC", "DBAE"
4505 DATA "DIE", "BI", "FH", "BADA
E"
4506 DATA "EGA", "AF", "BHE"
4507 DATA "FLHE", "BG", "CADAE"
4508 DATA "GEIE", "BHE"
4509 DATA "HNE", "AF", "DADAE"
4510 DATA "EEE", "DF", "BDDCE"
4511 DATA "EPLE", "CI", "CADAE"
4512 DATA "KMG", "CF", "CG", "CHE"
4513 DATA "LRNE", "FI", "BDDC", "DA
DAE"
4514 DATA "MSOI", "CG", "DDDC", "DA
PA", "DADA", "DBAIE"

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4515 DATA "NEEE", "AI", "EHE"
4516 DATA "EUEK", "DF", "DADAE"
4517 DATA "EUEL", "CF", "CIE"
4518 DATA "EUEM", "EH", "EADAE"
4519 DATA "EXEN", "FF", "FGE"
4520 DATA "EYEE", "FEFC", "FEFO", "
BDDCE"
4521 DATA "EUP", "AEGI", "CDDCE"
4522 DATA "UEUP", "CG", "EIE"
4523 DATA "UEER", "FEGI", "AG", "EA
PAE"
4524 DATA "EYS", "EEGI", "BFE"
4525 DATA "XEE", "FF", "EG", "EH",
"EAPE"
7000 LET PO=J+H: LET TN=0: LET O
K=0: LET DI=0: LET DC=C: LET UX=
M+E: LET UY=M+B: LET SC=0
7015 LET RO=G+L: LET ROO=RO: DIM
R$(I+E): LET O$="OBJUC": RETURN
7500 LET L=1: LET O=0: LET UX=0:
LET UY=0: LET U$="": GO SUB 30
0: LET TY=0: LET TX=0: LET T$="
": LET T=0: LET TN=0: GO SUB 190
7505 LET Z$=U$: LET PO=0: LET B=
L+L: LET C=B+L: LET D=C+L: LET E
=D+L: LET F=E+L: LET G=F+L
7510 LET H=10: LET I=5+H: LET J=
C+H: LET K=D+H: LET M=H+H: LET S
T=M: DIM K$(J+B): LET Q$="FOCEGF
E": LET U=L/H: LET V=U/C: RETURN
7600 LET P=H+F: LET Q=K+P: RESTO
RE 7600: FOR N=USR "A" TO USR "S
"+G: READ A: POKE N,A: NEXT N: G
O TO 9930
7650 DATA P,K,124,186,0,K,K,K,15
,K,124,186,0,K,J+J,A,G+L,I,62,61
,J-B,I,J+J,A,0,84,A,0,254,K,66,A
,0,84,A,K,124,170,K,K,0,0,0,0,0
,64,248,64,0,0,0,0,76,150,142,1
50,76,0,0,108,150,174,124,0,P,P
,64,F,48,G,240,0,111,0,0,70,9,F,0
,124,130,124,0,106,144,70,9,95,1
48,136,0,124,130,254,130,A,A,254
,126,195,153,165,A,153,195,126
7662 DATA 0,0,124,A,68,A,A,0,0,P
,P,P,0,P,0,0,48,A,A,0,60,62,0,
0,0,P,P,K,K,K,0,0,0,64,A,0,P,P,0
9000 GO SUB 9900
9010 INK F: PRINT "The Aethanes,
nasties from the "Nth Dimension
threaten to "invade Earth, "
9020 PRINT "Avoid the evil Dra
goons!" INK E "Watch out for t
raps, which will "block, kill, or
drain yr strength." INK F "Loo
k for useful objects!": RETURN
9100 GO SUB 9900: PRINT TAB H+B:
"CONTROLS" INK E "S to go Left
", "8 to go Right", "6 to go Down
", "7 to go Up" INK F "Caps Shi
ft and" "S to strike L", "8 to
strike R" INK G "H for Help!!"
9150 GO TO 9930
9200 GO SUB 9930: GO SUB 9900: P
RINT AT D,B: "TRAP", TAB I, "EFFECT
": FOR P=L TO G: INK FN N(O$(P))
9210 LET A=P: GO SUB 9950: PRINT
AT E+P*B,0: CHR$(150+P): "N$:
GO SUB 9960: PRINT AT E+P*B,I;N
$: NEXT P: GO TO 9930
9900 BORDER 0: POKE 23693,G: POK
E 23658,G+L: OVER 0: CLS
9910 PRINT PAPER L: "EEEEEE --- M
AGE CAGE --- EEEEEEE" RETURN
9920 FOR N=L TO E: NEXT N: RETUR
N
9930 PRINT #L: INK D: TAB H+C: "MO
RE...": PAUSE 0: PAUSE 0: RETURN
9940 RESTORE 9940: GO TO 9961
9946 DATA "H.E.CAN", "SWORD", "GOO
BOOTS", "SERUM", "H.MASK"
9950 RESTORE 9950: GO TO 9961
9958 DATA "ROCKS", "TREES", "SWAMP
", "POISON POOLS", "MAD MIST", "UAL
LS", "FUSOR"
9960 RESTORE 9960
9961 LET N$="": FOR N=L TO G: RE
AD Z$: IF A=N THEN LET N$=Z$
9962 NEXT N: RETURN
9968 DATA "BLOCKS", Z$, "EXHAUSTS"
, "KILLS", Z$, "BLOCKS", "KILLS"
9999 BORDER G: POKE 23693,56

```


Breaking sentences down to two words of three letters

By Sunshine programmer Simon Lane

THIS ROUTINE FOR the Spectrum or Commodore machines will convert a sentence into two three-letter words. The first corresponds to the first three letters of the first word in the sentence, and the second to the first three of the last word.

This allows the input to an adventure game to be processed so that to some extent it is standardised. For example, say the player wanted to drop the golden statue that he was carrying. He might type in "DROP STATUE", "DROP THE STATUE", "DROP THE GOLDEN STATUE" or even "DROP THE GOLD STATUE". All of these sentences would return the same thing if sent to this subroutine, ie "DRO" and "STA". This should be sufficient to determine what the player actually means.

The string should be sent to the subroutine in the variable Z\$, and the two three-letter words are returned in the variables W\$(1) and W\$(2) in the Spectrum version, and in W1\$ and W2\$ in the CBM 64/Vic 20 version.

Commodore

```

9800 REM DECODE INPUT
9810 W1$ = "":W2$ = ""
9820 IF Z$ = "":THEN RETURN
9830 FOR Z = 1 TO LEN(Z$)
9840 IF MID$(Z$,Z,1) = "" THEN NEXT:RETURN
9850 LET W1$ = MID$(Z$,Z,3)
9855 LET ZZ=Z+2: IF ZZ>LEN(Z$) THEN RETURN
9860 LET ZZ = Z:FOR Z = LEN(Z$) TO ZZ +2 STEP-1
9870 IF MID$(Z$,Z,1) = "" THEN NEXT:RETURN
9880 IF MID$(Z$,Z-1,1)<>"" THEN NEXT:RETURN
9890 LET W2$ = MID$(Z$,Z,3) : RETURN

```

Spectrum

```

9800 REM DECODE INPUT
9810 DIM W$(2,3)
9820 IF Z$="" THEN RETURN
9830 FOR Z=1 TO LEN Z$
9840 IF Z$(Z)="" THEN NEXT Z: RETURN
9850 LET W$(1)=Z$(Z TO )
9860 FOR Z=LEN Z$ TO Z+2 STEP -1
9870 IF Z$(Z)="" THEN NEXT Z: RETURN
9880 IF Z$(Z-1)<>"" THEN NEXT Z
: RETURN
9890 LET W$(2)=Z$(Z TO ). RETURN

```

Here's my classified ad.

(Please write your copy in capital letters on the lines below.)

£0.20	£0.40	£0.60	£0.80
£1.00	£1.20	£1.40	£1.60
£1.80	£2.00	£2.20	£2.40
£2.60	£2.80	£3.00	£3.20
£3.40	£3.60	£3.80	£4.00
£4.20	£4.40	Please continue on a separate sheet of paper	

I make this..... words, at 20p per word so I owe you £

Name.....

Address

.....

.....

Telephone.....

Please cut out and send this form to: Classified Department, *Micro Adventurer*, 12-13 Little Newport Street, London WC2R 3LD

From Paul Price in Bodmin

THIS IS AN adventure program for the Vic 20. The program requires a minimum 8K expansion for the Vic, as it uses just over 8½K. It uses print statements and should be easily transposable to other machines.

The adventure is text only and all commands which must be entered as single letters are explained in the program. All others are the usual two word commands.

The following is a list of the main variables used:

A = Pointer to current location

Giant's Gold

LOS = Additional information at the location — alters depending on actions taken

OB\$ = Objects

OB = Location of object

(O = being carried)

AS = First input

BS = Second input

GI, RA, MA, DW, DR, KE, MT, BA = Various flags to indicate certain conditions (MT is for matches and starts at six so use them sparingly).

All locations are held in subroutines and line 21 indicates which subroutine to GOTO, determined by the value of A. A is altered by the values of NO, SO, WE and EA. H for help and EXAMINE will give clues in the right places.

```

5 GOSUB4000
7 PRINT"J"RESTORE
9 GOSUB5000
11 ONADOSUBS(500,520,540,560,580,600,620,640,660,680,700,720)
13 PRINTLOS:PRINTLAS
15 FORN=1TO9
17 IFOB(N)=ATHENPRINTOB$(N)
19 NEXT:PRINT
21 INPUT"WHAT SHALL I DO NOW?";IS:PRINT"II"
23 FORB=1TOLEN(I$)
25 IFMID$(I$,B,1)OCHRS(32)THENNEXT
27 AS=LEFT$(I$,B-1)
29 IFLEN(AS)=1THEN37
31 C=LEN(I$)-B
33 IFC=0THENPRINTAS;" WHAT?"GOTO21
35 BS=RIGHT$(I$,C):GOTO47
37 IFAS="N"ANDNO=0THENAND=1GOTO11
39 IFAS="S"ANDSO=0THENAND=2GOTO11
41 IFAS="W"ANDWE=0THENAND=3GOTO11
43 IFAS="E"ANDWE=0THENAND=4GOTO11
45 IFAS="I"THEN65
47 IFAS="H"THEN75
49 IFAS="L"THENPRINT"I SEE NOTHING SPECIAL."GOTO11
51 IFAS="TAKE"ORAS="GET"THEN79
53 IFAS="LEAVE"THEN93
55 IFAS="EXAMINE"THEN101
57 IFAS="LIGHT"THEN107
59 IFAS="CHOP"THEN123
61 IFAS="BUY"THEN143
63 IFAS="CRST"THEN153
65 IFAS="OPEN"THEN169
67 IFAS="UNSCREW"THEN189
69 IFAS="FEED"THEN195
71 IFAS="CUT"THEN220
73 IFAS="UNLOCK"THEN240
75 IFAS="CLIMB"THENPRINT"I'M SCARED OF HEIGHTS!"GOTO21
77 IFAS="JUMP"THEN260
79 IFAS="O"THENEND
81 IFLEN(AS)=1THENPRINT"NOT THAT WAY"GOTO21
83 PRINT"I DON'T UNDERSTAND":PRINTAS:GOTO21
85 FORN=1TO9
87 IFOB(N)=ATHENNEXT:GOTO21
89 PRINTOB$(N)
91 N=N+1:IFN=9THEN67
93 GOTO21
95 IFAS=3THENPRINT"HAVE YOU LIT A FIRE FOR HIM?"GOTO21
97 IFAS=9THENPRINT"PERHAPS HE'S HUNGRY?"GOTO21
99 PRINT"HAVE YOU TRIED TO EXAMINE THINGS?"GOTO21
101 IFBS="BOX"ORBS="LOG"ORBS="BARREL"ORBS="CHEST"THENPRINT"I CAN'T IT'S TOO HEAVY"
GOTO21
103 IFBS="KEY"ANDKE=1THENPRINT"I CAN'T IT'S TIED TO SOMETHING"GOTO21
105 IFAS=5ANDGI=1THENPRINT"GIANT WON'T LET ME!"GOTO21
107 IFBS="FIRE"THENPRINT"OW I'VE BURNED MYSELF TO DEATH!"FOR=1TO3000:NEXT GOTO
5000
109 FORN=1TO9:IFOB(N)=ATHENNEXT
111 IFOB(N)=B$THENPRINT"OK":OB(N)=B:GOTO21
113 IFN=10THEN91
115 NEXT
117 PRINT"NO!"GOTO21
119 FORN=1TO9
121 IFOB(N)=B$ANDOB(N)=0THENPRINT"OK":OB(N)=A:GOTO21
123 NEXT
125 PRINT"I'M NOT CARRYING IT!"GOTO21
127 IFAS=6ANDRA=1ANDBS="BARREL"THENPRINT"THE LID IS SCREWED ON!"
129 IFAS=6ANDRA=2ANDBS="BARREL"THENPRINT"SHOULD I OPEN IT AND LOOK?"
131 IFAS=12ANDKE=1ANDBS="KEY"THENPRINT"IT'S TIED ON AN IRON RING-BOLT WITH STRIN
O" GOTO21
133 IFAS=12ANDKE=0ANDOB(8)=12THENPRINT"THE STRING IS CUT ALL I NEED TO DO IS TAKE
THE KEY"
135 PRINT"I SEE NOTHING SPECIAL" GOTO21
137 IFOB(6)=0THENPRINT"WHAT WITH?" GOTO21
139 IFBS="FIRE"ORBS="KINDLING"THEN169
141 IFBS="MATCHES"THENPRINT"LIGHT THEM ONE AT A TIME" GOTO21
143 IFOB(6)=0THENPRINT"THAT WON'T IGNITE" GOTO21
145 IF MT=1:IFMT=0THENPRINT"THAT'S YOUR LAST MATCH"OB(6)=0:OB(6)=A
147 PRINT"MATCHES DO NOT LAST VERY LONG!"
149 IFAS=7THENA=11:GOTO11
151 IFAS=8THENA=11:GOTO11
153 IFAS=10THENA=12:GOTO11
155 PRINT"NOTHING HAPPENED BUT I DID BURN MY FINGERS!"GOTO21
157 IFOB(7)=0THENPRINT"WHAT WITH?" GOTO21
159 IFBS="TREE"ANDRA=4THENPRINT"THERE ARE NO TREES CLOSE ENOUGH" GOTO21
161 IFBS="TREE"ANDRA=0THENPRINT"THESE ARE NO TREES TO CHOP HERE" GOTO21
163 IFBS="TREE"THENPRINT"OK TINDER CRASH!"RA=0:GOTO11
165 IFBS="LOG"ANDRA=1THENPRINT"WHAT LOG?" GOTO21
167 IFBS="LOG"ANDOB(3)=0"LOG"THENPRINT"NO LOG LEFT" GOTO21
169 IF BS="LOG"THENPRINT"OK I'VE CHOPPED IT UP"OB(3)=0:KINDLING=1GOTO21
171 IFBS="BOX"ANDRA=0THENPRINT"WHAT BOX?" GOTO21
173 IFBS="BOX"ANDRA=5ANDGI=1THENPRINT"GIANT WON'T LET ME" GOTO21
175 IFBS="BOX"ANDRA=0THENPRINT"NO POINT IT IS NOT LOCKED" GOTO21
177 IFBS="BARREL"ANDRA=0THENPRINT"WHAT BARREL?" GOTO21
179 IFBS="BARREL"THENPRINT"IT'S TOO WELL BUILT TO CHOP" GOTO21
181 PRINT"I CAN'T CHOP THAT" GOTO21
183 IFOB(9)=0THENPRINT"WHAT WITH?" GOTO21
185 IFBS="SPELL"THENPRINT"IT'S NOT FOR SALE" GOTO21
187 IFAS=2THENPRINT"IT'S NOT HERE" GOTO21

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148 IFRA=0THENPRINT"IT'S NOT HERE" GOTO21
149 PRINT"OK THE MAGICIAN SELLS YOU THE SPELL AND HE DISAPPEARS!"
151 RA=0:OB(9)=0:OB(9)=A:OB(5)=0:GOTO21
153 IFOB(5)=0THENPRINT"I DON'T HAVE IT!"GOTO21
155 IFAS=5THENPRINT"OK THE GIANT IS ASLEEP"OB(5)=0:OB(5)=A:GOTO21
157 IFAS=5THENPRINT"OK THE DRAGON IS ASLEEP"DR=0:OB(5)=0:OB(5)=A:EA=10:GO
TO21
159 PRINT"OK, IT SEEMS TO HAVE NO EFFECT"OB(5)=0:OB(5)=A:GOTO21
161 IFOB(3)=0THENPRINT"NOW I'VE SET FIRE TO MYSELF!!"FOR=1TO3000:NEXT GO
TO5000
163 IFOB(3)=0THENPRINT"THESE'S NOTHING I CAN LIGHT" GOTO21
165 IFAS=3THENPRINT"OK, I'VE LIT A FIRE"OB(3)=0:GOTO21
167 IFAS=3THENPRINT"THE DWARF IS SO HAPPY HE PAYS YOU IN GOLD!"DW=0:OB(9)=0"GOLD
"OB(9)=0
169 MT=1:IFMT=0THENPRINT"THAT'S YOUR LAST MATCH"OB(6)=0:OB(6)=A
171 OB(3)=0:GOTO21
173 IFBS="BARREL"ANDRA=0THENPRINT"WHAT BARREL?"GOTO21
175 IFBS="BARREL"ANDRA=1THENPRINT"I CAN'T THE LID IS SCREWED ON TIGHT" GOTO21
177 IFBS="BARREL"ANDRA=0THENPRINT"OK I'VE OPENED IT"OB(4)=0:GOTO21
179 IFBS="BOX"ANDRA=0THENPRINT"WHAT BOX?"GOTO21
181 IFBS="BOX"ANDGI=1THENPRINT"GIANT WON'T LET ME" GOTO21
183 IFBS="BOX"THENPRINT"OK I'VE OPENED IT"OB(4)=0:GOTO21
185 IFBS="CHEST"ANDRA=0THENPRINT"WHAT CHEST?"GOTO21
187 IFBS="CHEST"ANDRA=1THENPRINT"I CAN'T IT'S LOCKED" GOTO21
189 IFBS="CHEST"THEN5000
191 PRINT"WHAT ARE YOU TALKING ABOUT?"GOTO21
193 IFBS="BARREL"ANDRA=0THENPRINT"WHAT BARREL?"GOTO21
195 IFBS="BARREL"ANDOB(2)=0THENPRINT"WHAT WITH?" GOTO21
197 IFBS="LID"ANDOB(2)=0THENPRINT"WHAT WITH?" GOTO21
199 IFBS="BARREL"ORBS="LID"THENPRINT"OK I'VE UNSCREWED IT"RA=0:GOTO21
201 PRINT"I DON'T UNDERSTAND" GOTO21
203 IFOB(4)=0THENPRINT"I'VE GOT NO FOOD!"GOTO21
205 IFBS="DRAGON"ANDRA=0THENPRINT"WHAT DRAGON?"GOTO21
207 IFBS="DRAGON"THENPRINT"UNCH MUNCH MUNCH"DR=0:EA=10:GOTO21
209 IFBS="GIANT"ANDRA=0THENPRINT"WHAT GIANT?"GOTO21
211 IFBS="GIANT"THENPRINT"UNCH MUNCH MUNCH"OB(4)=0:OB(4)=A:GOTO21
213 IFBS="DWARF"ANDRA=0THENPRINT"WHAT DWARF?" GOTO21
215 IFBS="DWARF"THENPRINT"UNCH MUNCH MUNCH"OB(4)=0:OB(4)=A:GOTO21
217 PRINT"PARDON?"GOTO21
219 IFBS="STRING"ANDRA=12THENPRINT"WHAT STRING?" GOTO21
221 IFBS="STRING"ANDOB(1)=0THEN226
223 IFBS="STRING"THENPRINT"OK I'VE CUT IT"KE=0:GOTO21
225 IFBS="STRING"ANDOB(7)=0THENPRINT"THE RAKE IS TOO BLUNT" GOTO21
227 IFBS="STRING"THENPRINT"I'VE NOTHING TO CUT IT WITH" GOTO21
229 PRINT"I CAN'T CUT THAT" GOTO21
231 IFBS="BOX"ANDRA=0THENPRINT"WHAT BOX?"GOTO21
233 IFBS="BOX"THENPRINT"IT'S NOT LOCKED" GOTO21
235 IFBS="BARREL"ANDRA=0THENPRINT"WHAT BARREL?" GOTO21
237 IFBS="BARREL"THENPRINT"IT'S NOT LOCKED" EXAMINE IT!"GOTO21
239 IFBS="CHEST"ANDRA=0THENPRINT"WHAT CHEST?" GOTO21
241 IFBS="CHEST"ANDOB(8)=0THENPRINT"I HAVEN'T GOT A KEY" GOTO21
243 IFBS="CHEST"THENPRINT"CLICK!"CH=0:GOTO21
245 PRINT"UNLOCK WHAT?"GOTO21
247 IFBS="RAVINE"ANDRA=4THENPRINT"WHAT RAVINE?"GOTO21
249 IFBS="RAVINE"THENPRINT"OK HERE HE GO" XXXX NO IT'S TOO FAR!"FOR=1TO
3000:NEXT GOTO5000
251 PRINT"YOU'RE LIVING IN A FANTASY!"GOTO21
253 LOS="I'M IN A MOOD"
255 LAS="THERE IS A CAVE TO THE NORTH."
257 NO=6:SO=2:WE=4:EA=0:RETURN
259 LOS="I'M IN A CLEARING IN A WOOD, THERE IS A HUT TO THE EAST"
261 IFRA=1THENLAS="THERE IS A MAGICIAN HERE WITH A SPELL FOR SALE"
263 IFRA=0THENLAS=""
265 NO=1:SO=0:WE=0:EA=3:RETURN
267 LOS="I'M INSIDE A SMALL HUT"
269 IFDW=1THENLAS="THERE IS A COLD DWARF"
271 IFDW=0THENLAS="THERE IS A WARM DWARF"
273 NO=0:SO=0:WE=2:EA=0:RETURN
275 LOS="I'M ON THE EDGE OF A DEEP RAVINE"
277 IFRA=1THENLAS="THERE IS A LARGE TREE OVERHANGING THE RAVINE"WE=0
279 IFRA=0THENLAS="THERE IS A RECENTLY FELLED TREE ACROSS THE RAVINE"WE=5
281 NO=0:SO=0:EA=1:RETURN
283 LOS="I'M IN A FIELD, THERE IS A LARGE BOX AND A CHEST"
285 IFGI=1THENLAS="THERE IS A GIANT HERE GUARDING IT"
287 IFGI=0THENLAS="THERE IS A SLEEPING GIANT"
289 NO=0:SO=0:WE=0:EA=4:RETURN
291 LOS="I'M IN A CAVE THERE IS AN OPENING IN THE EAST WALL."
293 LAS="THERE IS A BARREL ON THE GROUND"
295 NO=0:SO=1:WE=0:EA=7:RETURN
297 LOS="I'M AT THE ENTRANCE TO A TUNNEL"
299 LAS="IT'S TOO DARK TO SEE"
301 NO=0:SO=0:WE=6:EA=0:RETURN
303 LOS="I'M AT THE ENTRANCE TO A TUNNEL"
305 LAS="IT'S TOO DARK TO SEE"
307 NO=0:SO=0:WE=0:EA=9:RETURN
309 LOS="I'M AT THE ENTRANCE TO A TUNNEL"
311 LAS="IT'S TOO DARK TO SEE"
313 NO=0:SO=0:WE=0:EA=9:RETURN
315 LOS="I'M IN A LIGHT AIRY CAVERN, I CAN SEE A DARK ALCOVE EAST"
317 IFDR=1THENLAS="THERE IS A DRAGON IN THE WAY"EA=0
319 IFDR=0THENLAS="THERE IS A SLEEPING DRAGON"EA=10
321 NO=0:SO=0:WE=0:EA=8:RETURN
323 LOS="IT'S TOO DARK TO SEE IN THE ALCOVE"
325 LAS=""
327 NO=0:SO=0:WE=9:EA=0:RETURN
329 LOS="I'M INSIDE THE TUNNEL"

```



```

4120 PRINT"*****"
4122 PRINT" "
4123 PRINT" "
4124 PRINT"CAN YOU FIND"
4125 PRINT" "
4126 PRINT"THE GIANT'S GOLD ?"
4127 PRINT" "
4128 PRINT" "
4130 PRINT"*****"
4135 PRINT"WHEN READY PRESS A KEY"
4140 POKE198,8:WAIT198,1:POKE198,0:PRINT":RETURN
5000 FOR=1TO READOR(N),OR(N)-NEXT
5005 DATA "5," "5," "5,LO,1," "5," "2,MATCHES,3,AXE,11,KEY,12," "3
5010 A=1:G1=1:BA=1:HA=1:DA=1:DR=1:HT=6:BA=1:CH=1:RETURN
5090 PRINT"DOES THAT WASN'T VERY SMART"
5110 PRINT"***** ANOTHER GO Y/N?"
5220 GETA:IF A$=" "THEN G5520
5325 IF A$="Y"THENPRINT":RUN7
5330 IF A$="N"THENPRINT":END
5440 GOTO5520
5600 PRINT"DOES THE CHEST IS FINALLY OPEN AND YOU DISCOVER THE MISSING GOLD "
5610 PRINT"WELL DONE!"
5620 POKE198,8:WAIT198,1
5630 PRINT":END

```

Storing well on the BBC

From Andy Mitchell, Larkfield, Kent

A LARGE PART of the space taken up by adventure games is that used to store messages. It is essential therefore to store this as efficiently as possible. For this reason it is a good method to place all such text in one large database at the end of the program and use a single procedure to extract the required message.

By this method we have a neat structure which is easy to debug and as a bonus we can make up different replies by mixing the messages (see line 3000). By calling the procedure `PROC`M with suitable parameters we can make up various messages using the same data (lines 2000-2030). Line 10 will print the message: `YOU HAVE`

```

3000 DATA YOU HAVE FALLEN, INTO A PIT, DOWN THE STAIRS,
      OVER A CLIFF, AND DIED, BUT LANDED SAFELY
2000 DEFPROC(MXX)
2010 RESTORE 3000 : FOR AX=1 TO XX : READ MESS$ : NEXT
2020 PRINT MESS$
2030 ENDPROC
10 PROC(M1) : PROC(M3) : PROC(M6)
20 END
4000 DATA A TINY PLANT, A 6 FOOT PLANT CRYING WATER, A 12 FOOT PLANT
      REACHING THE ROOF, A DEAD OVERWATERED PLANT
5 PLANTROOM=2 : ROOM=2 : PLANT=3
15 IF ROOM=PLANTROOM THEN PROC(M5+PLANT)

```

FALLEN DOWN THE STAIRS BUT LANDED SAFELY.

A further sophistication is to use the value of a flag in the calling parameter. Imagine a room containing a beanstalk which could be in one of four states: a tiny plant, a 6 foot plant crying water, a 12 foot plant reaching the roof, or a dead overwatered plant. A variable called PLANT is initially set to 1 and is in turn changed to the values 2, 3 and 4 in response to the user giving the command WATER PLANT. By adding the plant descriptions

to our existing database as shown in line 4000, you will see that the first description can be printed by the command `PROCM(6)` and the subsequent states by `PROCM(7)`, etc.

However, the state of the plant at any time can also be printed more simply by the command `PROCM(5+PLANT)`. We can therefore with the minimum of code insert this command into our room description procedures to ensure the correct description of the plant when the plant room description is used (lines 5 and 15).

Guessing routines for the Electron

```

9000 DEF PROCsecret
9010 LOCAL GUESS,GUESS$,CHAR
9020 FOR GUESS=1 TO GUESSLIMIT
9030 PRINT "GUESS NUMBER ";GUESS;
9040 INPUT GUESS$
9050 IF LEN(GUESS$)<>LEN(CODE$) THEN PRINT LEN(CODE$);
" CHARACTERS, PLEASE": GOTO 9030
9060 PRINT "CORRECT LETTERS:";
9070 FOR CHAR =1 TO LEN(CODE$)
9080 IF MID$(GUESS$,CHAR,1)=MID$(CODE$,CHAR,1) THEN
PRINT MID$(CODE$,CHAR,1); ELSE PRINT "-";
9090 NEXT CHAR
9100 PRINT
9110 IF GUESS$<>CODE$ THEN NEXT GUESS:GUESSED=FALSE
ELSE GUESSED=TRUE
9120 ENDPROC

```

By Sunshine programmer Simon Lane

THIS PROCEDURE FOR the Electron or the BBC micros makes the player guess a secret code, with a limit on the number of guesses allowed. Each time the player makes a guess he is shown how many of the letters in his guess were correct, if any.

Input to the procedure is the string to be guessed, and the maximum number of attempts allowed. The procedure sets the variable GUESSED to TRUE if the code was guessed in the number of tries allowed, and to FALSE otherwise.

For example:

1000 PRINT "The wizard looks at you, and
in a booming voice decrees 'If you can
guess my name I will let you enter the
cavern. Otherwise I will turn you into a
frog. My name has five letters, and you may
have up to five guesses'

```

1010 PROCsecret("BORIS",5)
1020 IF GUESSED THEN PRINT "The
wizard smiles and says 'You have passed my
simple test, good Sir. I will let you pass,'
and he stands aside. ":GOTO 2000
1030 PRINT "Croak."□

```


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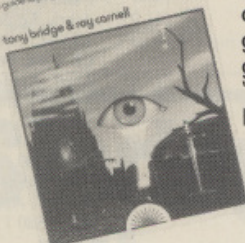


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Red Shift 12C Manor Road London N16	Apocalypse	£9.95	Spectrum 48K, BBC B
	Apocalypse Expansion: Maps	£4.95	Spectrum 48K
	Apocalypse Expansion: Ancient Scenarios	£4.95	Spectrum 48K
	Apocalypse Expansion: Modern Scenarios	£4.95	Spectrum 48K
Salamander	Franklin's Tomb	£9.95	Dragon 32, Oric 48K, BBC B

COMPANY	GAME	PRICE	MICRO
Salamander (Contd)	Wizard War	£7.95	Dragon 32
	Lost in Space	£9.95	Dragon 32
	17 Norfolk Rd	£7.95	Dragon 32
	Brighton	£7.95	Dragon 32
	Sussex	£9.95	BBC B
	737 Flight Simulator	£9.95	BBC B
Severn Software	Grail	£6.95	Oric 48K
	5 School Crescent	£4.95	Spectrum
	Lydney	£6.95	Oric 48K
	Glos		
Richard Shepherd Software	Super Spy	£6.50	Spectrum 48K
	Transylvanian Tower	£6.50	Spectrum 48K
	Elm House	£6.50	Spectrum 48K
	23-25 Elmshott Lane	£4.95	Spectrum
	Cippenham	£6.50	Spectrum 48K
	Slough	£6.50	Spectrum 48K
	Berks	£6.50	Spectrum 48K
Sierra On-Line Systems	Mission Asteroid	£17.95	Atari plus drives
	Mission Asteroid	£14.35	Apple plus drives
	Mystery House	£17.95	Apple plus drives
	Central Way	£23.70	Atari, Apple
	Feltham		(both plus drives)
	Middx		Atari plus drives
	Cranston Manor	£28.75	Apple plus drives
	Cranston Manor	£25.50	Apple plus drives
	Ulysses and the Golden Fleece	£25.50	Apple, IBM PC
	Time Zone	£71.95	(both plus drives)
	Embassy Assault	£4.95	Apple plus drives
	(also see under Psion and Artic)		Spectrum
Sinclair			
	Stanhope Rd		
	Camberley		
	Surrey		
Soft Toys	The Lair	£6.00	Vic 20
	Star Warp II	£6.00	Vic 20
	14 Lockharton Ave		
	Edinburgh		
Software For All	JR	£6.95	BBC
	72 North St	£7.95	BBC B
	London N6	£6.95	BBC B
Sulis Educational Software	Area Radar Controller	£6.95	BBC B
	Time Traveller	£7.95	Spectrum, BBC
	4 Church St		
	Abbey Green		
	Bath		
Superb Software	The Island	£10.00	CBM 64
	9B Oval Rd		
	London NW1		
Terminal Software	Curse of the Werewolf	£9.95	Vic 20 E
	Rescue from Castle Dread	£9.95	Vic 20 E
	28 Church Lane		
	Prestwich		
	Manchester		
	Magic Mirror	£9.95	Vic 20 E
	Nosferatu	£9.95	Vic 20 E
	Space Island	£6.95	Spectrum 48K
	Vampire Village	£6.95	Spectrum 48K
Ultimate	Atic Atac	£5.50	Spectrum 48K
	Lunar Jetman	£5.50	Spectrum 48K
	The Green		
	Ashby-de-la-Zouch		
	Leics		
Virgin Games	Castle Adventure	£6.95	Dragon 32
	61-63 Portobello Rd		
	London W11		
Wintersoft	Ring of Darkness	£9.95	Dragon 32
	Operation Gremlin	£6.95	Oric 48K
	30 Uplands Park Rd		
	Enfield		
	Middx		
Work Force	Adventure in Time	£7.00	ZX81, Spectrum 48K
	140 Wilsden Ave		
	Luton		
	Beds		
	Pirate Island	£6.50	Spectrum 48K

NOTES TO THE TABLE

Atari

The programs will run on either the Atari 400 or 800 unless E is specified, in which case extra memory is needed on the 400.

BBC

The programs will run on either of the BBC micros unless the model B is specified, in which case extra memory is needed on the model A.

Drives

If a program needs a disk drive system this is specified in the micro column.

Spectrum

The programs will run on either Spectrum model unless 48K is specified.

ZX81

All programs need a 16K RAM pack.

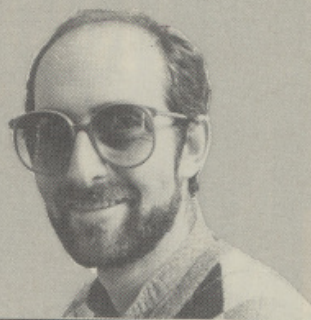
AT THE recent ZX Microfair at Alexandra Palace, I spent several hours watching the crowds around the various stands and the reactions of those looking at the software on display.

Did I detect a slight, but noticeable, feeling of boredom (shock! horror!) with the arcade game? The latest crop is as far advanced from the early programs as can be imagined, and is extremely good, too — but it is hard to foresee what more can be done with arcade games on the home computer, as it presently stands.

Until now, games programmers have been striving to make their creations as much like the arcade originals as possible. It's unlikely, of course, that games like Defender and even simple Space Invaders will ever be satisfactorily copied across to the home micro (Artic's Space Invaders is a remarkably similar implementation, but no version has the adrenalin-pumping thump-thump of the original).

ADVENTURE HELP

If you need advice or have some to offer write to Tony Bridge, Adventure Help, Micro Adventurer, 12-13 Little Newport St, London WC2R 3LD



So now the writers display great imagination in creating new games of their own. Games like Cookie, Zzoomm, Psstt and the rest are as good as any arcade game. But with arcade games beginning to use video disks, total environments and multi-players networks, it's unlikely that the home micro can keep up the pretence of similarity.

Thus, I believe that we have reached a plateau. Certainly there will be new arcade-like titles appearing each month,

and they will hold the attention for a while, but I think interest will gradually turn towards less frenetic computer pastimes.

One of the main reasons, I imagine, for the popularity of the "zap" game, is the sheer escape that they afford the player — but we can make the same escape via, for example, adventure games (you knew I'd get to it soon, didn't you?).

I don't know if arcade games can be called a hobby, but I think there is generally not a lot of inter-action between

adherents of the rocking, vibrating console. Although networks of machine users are now appearing in the States that allow inter-action between players, this does not make the pastime a hobby.

Computer & Video Games, indeed, publishes hi-scores, and passes on hints from keen arcadists to others of a similar ilk, but the advice passed on to other adventurers by those who have successfully passed a difficult location, is of a much more helpful nature. And it is more itner-active, of course — you scratch my back, etc.

As for hi-scores — well, there has been a little contest running for some time to achieve the lowest score in 'completing The Hobbit!

Of course, I have no wish to seem elitist at this point — arcade games have just as much right to be popular as adventures, and many, many people will be quite happy to carry on playing them. But zapping Zaaxon can't possibly be as edifying as klobbering Kobolds, can it!

ADVENTURE CONTACT

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get the bard to kill the dragon? **Name** Adam Lock **Address** 2 (MSQ) TA Centre, Llandaff North, Cardiff.

MICRO Vic 20 (16K) Adventure Zok's Kingdom Problem How do you get passed the place with the pits? **Name** David Martin **Address** 50 Whitehall Rd, Ramsgate, Kent.

MICRO Spectrum Adventure Ship of Doom Problem How do I remove the key from the glass cover? What part does the frozen body play in escaping? **Name** David Hawkins **Address** 107 Butts Hill Rd, Woodley, Reading, Berks.

MICRO BBC B Adventure Castle of Riddles Problem How do you get out of the sitting room without going down hole under the chair? **Name** James Skinner **Address** Winterclyde, Rogers Lane, Stoke Poges, Bucks.

MICRO Vic 20 Adventure Adventure 5 The Count Problem I cannot open the coffin to get to Dracula **Name** Simon Hoare **Address** Ashlett Meade, Stonehills, Fawley, Southampton.

MICRO Spectrum 48K Adventure Velnor's Lair (Quicksilver) Problem How on earth does one feed the sharks with live food? How is it possible to capture one of the nasty orcs, trolls, etc and take it to feed them? **Name** D J

Clarkson **Address** 113 High St, Chesham, Bucks.

MICRO Dragon 32 Adventure Madness and the Minotaur Problem Cannot find mushroom in order to find and learn spell **Name** A W Garrington **Address** 45 Station

Rd, Llanelli, Dyfed.

MICRO Spectrum 48K Adventure The Hobbit Problem How do you get out of the goblin's dungeon and where do you get the ring? **Name** Glen Hardy **Address** 14 Teles Avenue, Canvey Island, Essex.

MICRO Commodore 64 Adventure Zork III Problem How to get by the panel/mirror near the button room and how to get crown jewels back to the present **Name** Tim Bell **Address** 37 Catisfield Rd, Fareham, Hants.

MICRO TI99/4A Adventure Scott Adam's Mystery Funhouse Problem How to disable the gun in the shooting gallery in order to enter from the tunnel and not get shot **Name** G Westerlan **Address** 22 Turner St, Rochdale, Lancs.

MICRO Vic 20 Adventure Adventureland Problem Please tell me how to wake the dragon and how to get the axe **Name** S Barker **Address** 10 Church View, Brompton, Nothallerton, North Yorks.

MICRO Spectrum 48K Adventure Adventure B (Inca Curse) Problem What are the scales used for? **Name** Jeremy Forgan **Address** 39 Buttermere Ave, Middlesbrough.

HAVE YOU BEEN staring at the screen for days, or given up in disgust, stuck in an adventure whose problems seem insurmountable? Adventure Contact may be the answer. This column is designed to put adventurers in touch with one another. When you're stumped a fellow adventurer may be able to help — and you may be able to solve other people's problems. If you are having difficulties with an adventure, fill in this coupon and send it to Adventure Contact, Micro Adventurer, 12/13 Little Newport St, London WC2R 3LD. We will publish Adventure Contact entries each month in this special column.

Micro.....

Adventure.....

Problem.....

Name.....

Address.....

COMPETITION CORNER

Tony Robererts tests
your skill — send
your answers to
Competition Corner,
Micro Adventurer,
12-13 Little Newport
St, London WC2R
3LD



The best 20 answers we
receive will win a copy of
Melbourne House's *The Hobbit*.
This adventure is now available
on the Spectrum 48K,
Commodore 64, BBC and Oric
48K — so let us know which
version you want when you
send in your competition entry.

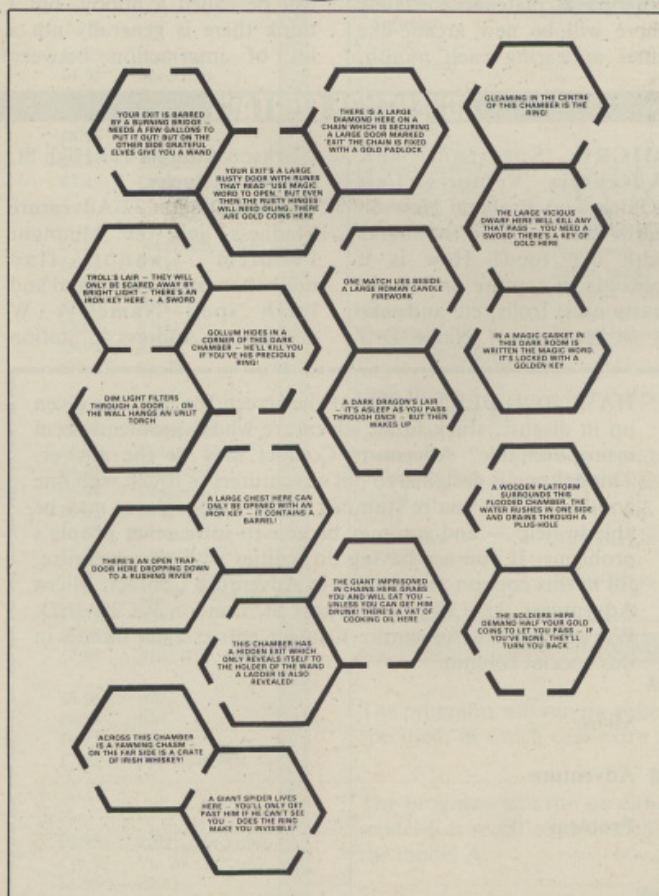
Escape the Hex by retrieving the ring

BURIED DEEP among the piles of rotted and rotting vegetation that cover the floor of the dim cavern in which you have taken refuge from Tisch, your eye has been caught by the gleam of these shattered pieces of chitin . . . they're curiously shaped, and so you thrust them into the pouch on your belt.

It is your undoing, because the extraordinary hearing of Tisch picks up the rasping of the fragments as you handle them, and the hot stench of her breath sweeping over the contents of what she thinks of as her herbal store is your only warning as she silently enters the cave. Naturally, you drop down into the debris, and, hardly daring to breathe (the smell makes it difficult not to panic with each breath anyway), try to squirm deeper into the decomposing mess.

Now that Tisch can smell you, however, she swings her massive tail across the entrance of the cave, blocking any hope of escape, and starts delicately picking through the foliage with a single claw extended from her black and scarred wing-tip. Even so, you almost escape detection as her vision, sensitive to infra-red, confuses the warmth of your body with that of the decomposition around you.

But the rustling rasp of those cursed pieces of chitin again



give you away as you passively roll under her massive claw . . . and she has you once more: she has a task for you. She wants you to enter the Hex, retrieve the Ring and make your way out again.

She wants you to succeed:

she sketches the rough layout of the cells within the Hex with her claw in the sandy floor of her sleeping-grounds. The Ring is in the centre. It is the Ring she wants. Anything else you can take is yours.

The day before you are to

enter the Hex, Fortune smiles upon you at last. As you cast around for anything to distract yourself from the almost certain death that you are to meet in the Hex, you remember those curiously marked chitin fragments, and examine them: suddenly you realise that they map the interior of the Hex: but how do they fit together? And what treasure will you be able to take for yourself?

The diagram shows the fragments and a rough translation of the writing on them . . . you must join them together as best you can in order to find the entry, locate the Ring and make your way out again. Send us your rearrangement of the chitin fragments in the form of the Hex, indicating which fragment is which and the route you followed to the treasure and then to safety. Also let us know the other treasures you emerge with. As a tie-breaker, complete the following sentence in less than 15 words: I want to own a copy of *The Hobbit* because . . .

Your entry must arrive by the last working day in November. The winners and the solution will be published in our January issue. You may only enter once. Entries will not be acknowledged and we cannot enter into correspondence on the result.

MY NAME IS
DIAMOND, DAN DIAMOND
I'M A PRIVATE COP. I
WORK THE BIG APPLE
A SEETHING METROPOLIS
FILLED WITH HUMAN
MISERY AND CHINESE
TAKEAWAYS.

NORMALLY I
ONLY DO ROUTINE
DIVORCE CASES BUT
WHEN **SHE** WALKED
INTO MY OFFICE I
FOUND MYSELF
INVOLVED IN A CASE
SO STRANGE THAT

IT MADE THE
BIG SLEEP
LOOK LIKE A
CAT NAP...



ACE NEWS

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starship officer
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WINS

HUNT WINS GRAND PRIX

At yesterday's Monaco Grand Prix, a hunting party strayed onto the track at the climax of the race. Cars were halted as the hounds rampaged around the circuit. "The whole place has gone to the dogs," one driver was reported as saying. The race was restarted; riders and drivers battled bitterly around the course before the Hunt thundered past the finishing line to take the chequered flag (it hasn't been seen since).

PLAYER WINS OPEN

Eagle eyed spectators were privileged to see player score a birdie fifteen



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PRIVATE DETECTIVE DISAPPEARS

Police are baffled by the disappearance of Dan Diamond. He was last seen approaching the eerie edifice known as Franklin's Tomb, but the authorities are completely unable to find any trace of him. Citizens are asked to report any information relating to his disappearance immediately. For further details, buy FRANKLINS TOMB, a new adventure game for the DRAGON 32 and

BANANA DICTATOR SLIPS UP

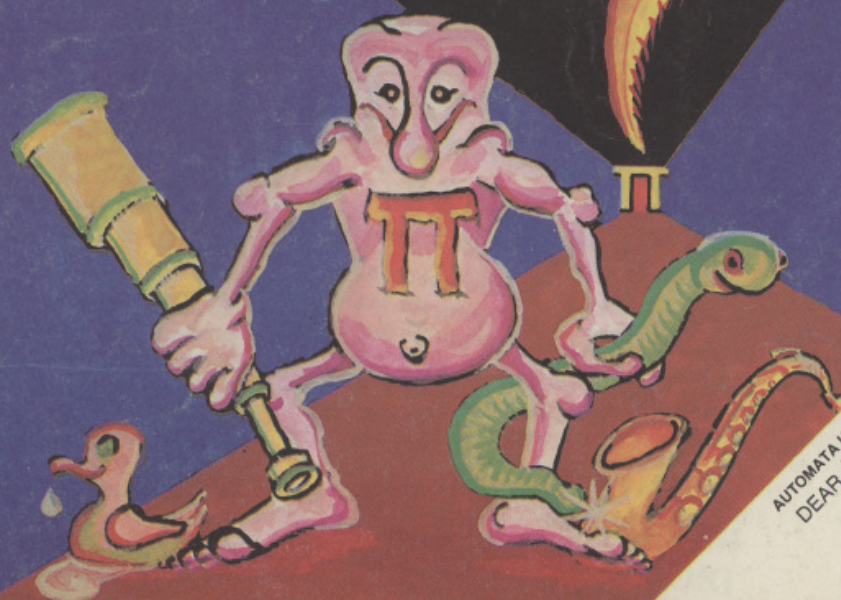
48k ORIC-1. This adventure comes complete with a 24-page illustrated Case File. £9.95 from BOOTS, SPECTRUM, COMPUTERS FOR ALL, WEBPERS and all other purveyors. Don't

2 DEAD IN EVEREST TRAGEDY

The Everest Expedition ended in tragedy yesterday as Carl and plunged down a cliff to a grisly death. the expedition was quoted as "Yuk". Continued on

COLD WAR XARG ESCAPES Thousands dead in Ice Storm Muduras the

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DRAGON 32 ☐ COMMODORE 64 ☐

my name
 my address