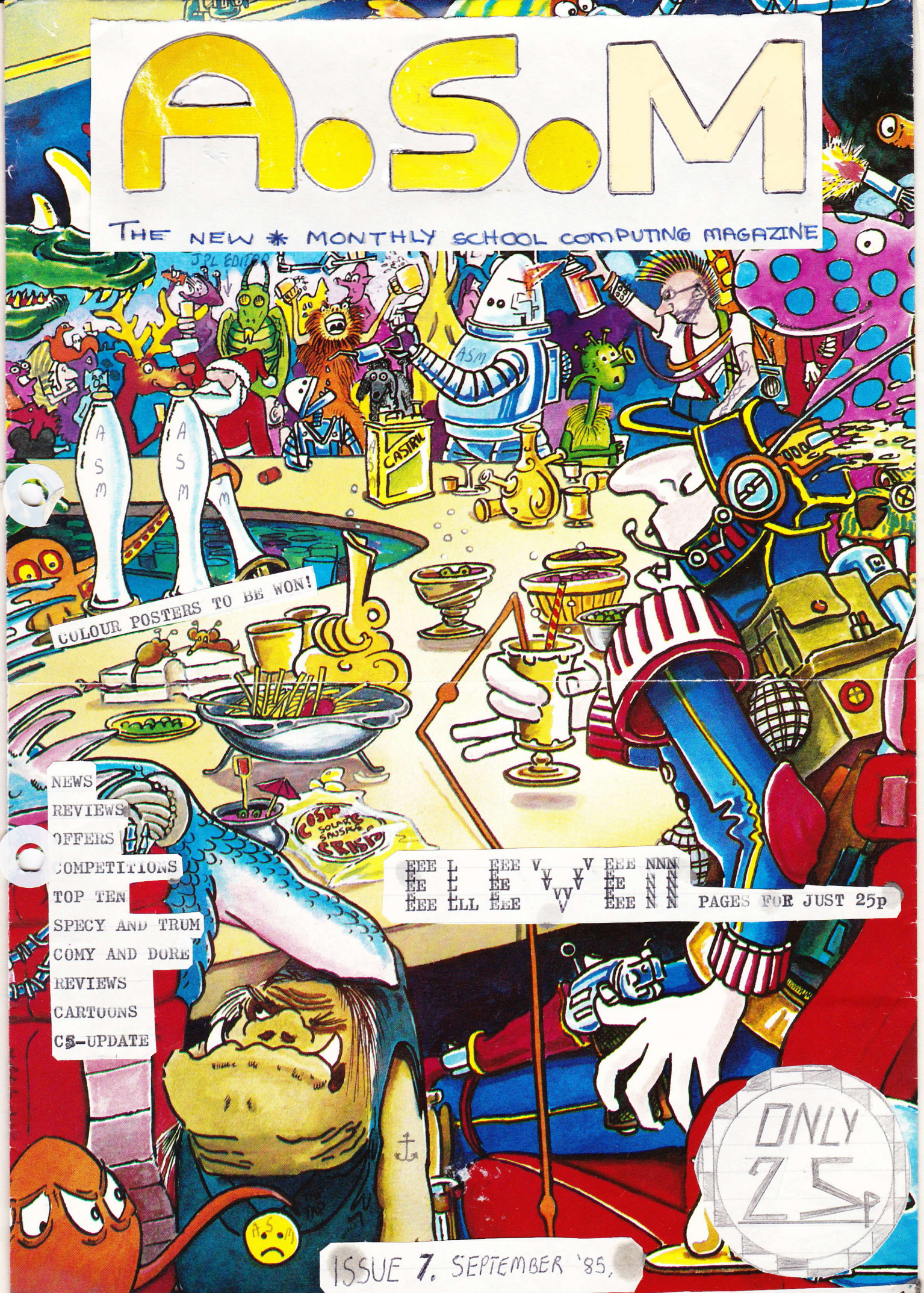
A.S.M

THE NEW * MONTHLY SCHOOL COMPUTING MAGAZINE



COLOUR POSTERS TO BE WON!

NEWS
REVIEWS
OFFERS
COMPETITIONS
TOP TEN
SPECY AND TRUM
COMY AND DORE
REVIEWS
CARTOONS
CS-UPDATE

EEE L EEE V V EEE NNN
EE L EE V V EE N N
EEE LLL EEE V EEE N N

PAGES FOR JUST 25p

ONLY 7p

ISSUE 7. SEPTEMBER '85.

THE B.H.S. COMPUTING MAGAZINE.

WELCOME TO THE 7TH EDITION OF THE ASM MONTHLY COMPUTING MAGAZINE.IN THIS ISSUE WE HAVE 2 COMPETITION PAGES,A C-5 UPDATE,REVIEWS,NEWS,THE TOP TEN,SPECY AND TRUM AND MUCH MORE.WE HOPE YOU ENJOY READING THIS EDITION OF THE MAGAZINE BUT SO WE CAN MAKE IT BETTER COULD YOU PLEASE HAND BACK THE QUESTIONAIRES FEATURED SOMETIME AGO.IF HOWEVER YOU HAVE LOST YOURS COPIES OF THE QUESTIONAIRE ARE AVAILABLE ON REQUEST.

WORDSQUARE

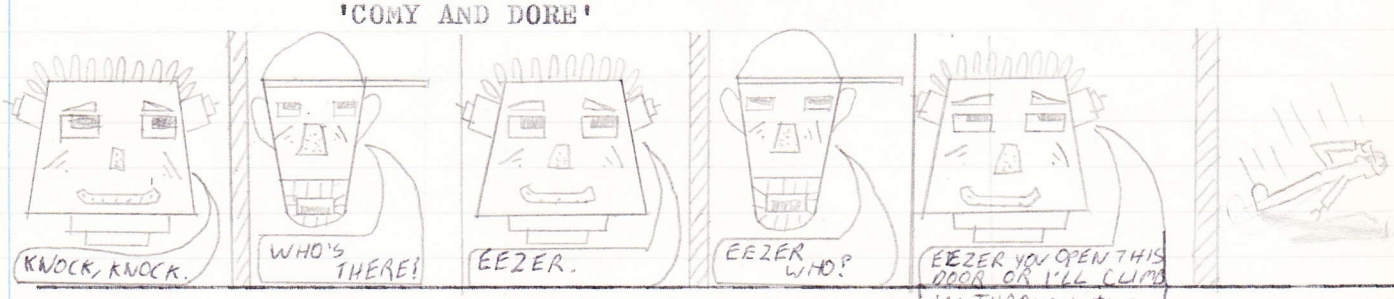
YOU WILL FIND THIS MONTHS WORDSQUARE ON THE COMPETITION PAGES INSIDE THE MAGAZINE. SEE PG 7

EXTRA.....

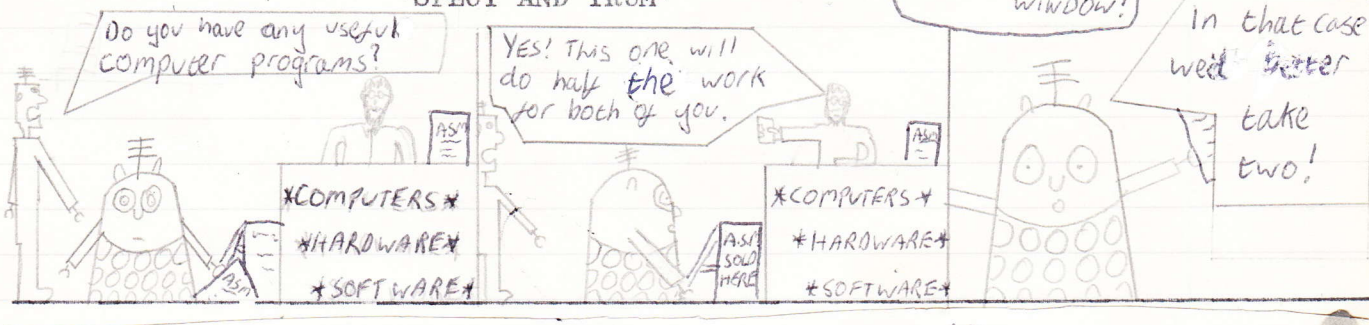
YOU WILL BE PLEASED TO HEAR THAT HERE AT ASM WE HAVE ACQUIRED SOME COLOUR POSTE -RS(FROM VARIOUS SOURCES)AND WE ARE GOING TO BE GIVING THEM AWAY AS PRIZES FO -R OUR COMPETITIONS.SO NOW YOU'VE NO EXCUSE FOR NOT ENTERING THE COMPETITIONS AND ITS FREE TOO SO ALL YOU SKINFLINTS DON'T HAVE TO SPLASH OUT YOUR HARD EARNED CASH-JUST HAND BACK YOUR FORM AND YOU HAVE A GOOD CHANCE OF WINNING. EVEN IF YOU CANT DO ALL THE COMPETITION EVEN A HALF FINISHED FORM COULD WIN YOU A HUGE COLOUR POSTER OR A SMALL COLOUR POSTER:-NO MATTER WHICH YOU WIN IT WON'T HAVE COST YOU A PENNY EXCEPT FOR THE PRICE OF THIS MAGAZINE AND AS IT'S FULL OF USEFUL INFORMATION ETC IT'S DEFINATLY GREAT VALUE FOR MONEY.

SEE PG's 6+7

'COMY AND DORE'



'SPECY AND TRUM'



15p NOW FROM DOWSEY SOFTWARE..... 15p

NIGHTMARE MANSION FOR THE BBC OR ELECTRON.SEND YOUR TAPE AND IT'LL ONLY COST YOU 15p.THIS IS AN ATIC ATAC LIKE GAME WITH 500 ROOMS.YOU MUST FIND A KEY TO OPEN THE DOOR OF FORTUNE.IF YOU CAN BEAT IT AND FIND OUT IT'S SECRET WE WILL GIVE YOU A FREE MAGAZINE.ONLY 15p ANDWE GIVE THIS A GAME RATING OF 8.

YET ANOTHER SPECTRUM FROM SIR CLIVE?

NEW SPECTRUM FROM SINCLAIR? NEWS PAGE.

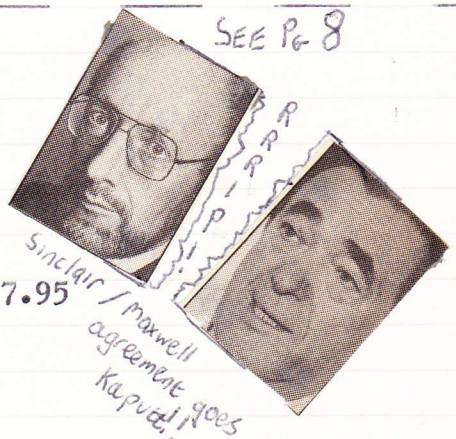
YOU MAY ALREADY HAVE HEARD ABOUT A NEW 128K SPECTRUM COMING OUT FROM SINCLAIR WELL THE FIRST SHOWING OF THIS NEW MACHINE WILL PROBABLY BE AT THE PCW* SHOW IN SEPTEMBER ALONG WITH A NEW MACHINE FROM ATARI-THE 260ST.THE NEW SPECTRUM IS THOUGHT TO BE PRICED BETWEEN £175 AND £200.IT WILL BE COMPATIBLE WITH THE EXISTING SPECTRUM AND SPECTRUM PLUS. BUT WILL PROBABLY ALSO HAVE A 3 CHANNEL SOUND CAPABILITY AND A 64 COLUMN TEXT MODE.AMONG OTHER FEATURES IT WILL HAVE BUILT IN JOYSTICK PORTS AND WILL HAVE THE ABILITY TO CONTROL A 60 COLUMN PRINTER.

*POPULAR COMPUTER WORLD.

SEE P6 8

OUR TOP TEN SPECTRUM GAMES:

1	FRANK BRUNO'S BOXING	ELITE	£6.95
2	HYPERSPORTS	IMAGINE	£7.95
3	GLASS	QUICKSILVA	£7.99
4	NICK FALDO PLAYS THE OPEN	MIND GAMES	£9.99
5	JET SET WILLY 2	SOFTWARE PROJECTS	£7.95
6	SHADOWFIRE	BEYOND	£9.95
7	SOFT AID	VARIOUS	£4.99
8	SPY vs SPY	BEYOND	£9.95
9	FORTH PROTOCOL	HUTCHINSON	£6.95
10	ROCCO	GREMLIN GRAPHICS	£7.95



Sinclair / Maxwell agreement goes Kaputt!

ROBERT MAXWELL HAS ENDED HIS AGREEMENT WITH SIR CLIVE AND NOW SINCLAIR'S FUTURE IS IN THE BALANCE.

REVIEWS:

JET SET WILLY 2

THIS GAME IS NOT YET ANOTHER PROGRAM COPYING THE ORIGINAL BUT IS IN FACT THE ORIGINAL AGAIN BUT WITH DIFFERENT MONSTERS AND MORE SCREENS.THE NEW GAME INCLU-DES A SPACE SHIP SCREEN AND MANY OTHER NEW AND DIFFERENT SCREENS.ALTHOUGH THIS GAME IS MUCH LIKE THE ORIGINAL IT IS QUITE WORTH THE PRICE AND NO DOUBT THERE WILL SOON BE MANY POKES FOR THIS GAME.

PRICE: £6.95

RATING : 7

FRANK BRUNO'S BOXING

THIS IS ANOTHER OF ELITES GAMES AND IT'S UP TO THE USUAL HIGH STANDARD.YOU ARE FRANK BRUNO FIGHTING FOR GREAT BRITAIN AND MUST BOX EIGHT DIFFERENT OPPONENTS EACH WITH THEIR OWN FIGHTING SKILL AND TACTICS.AFTER BEATING EACH BOXER IN A FIERCE 3 KNOCK OUT ROUND YOU ARE GIVEN A CODE WHICH YOU CAN USE TO LOAD UP THE NEXT BOXER.YOU HAVE FULL CONTROL OVER FRANK BRUNO AND USE HIGH AND LOW PUNCHES WITH LEFT AND RIGHT FISTS,DUCKS AND LEFT OR RIGHT DODGES.YOU MUST BEAT EIGHT BOXERS INCLUDING THE CANADIAN CRUSHER,ANDRA PUNCHEREDOV(USSR),FLING LONG CHOP(JAPAN),RAVIOLI MAFIOSI(ITALY) AND PETER PERFECT(USA) WHO IS THE CURRENT CHAMPION.CAN YOU BEAT THEM ALL AND GET TO THE TOP OR WILL YOU BE DEFEATED BY THE HEADBUTTS,PUNCHES AND FLYING KICKS? PRICE: £6.95

RATING: 9

Here's my classified ad.

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

		Please continue on a separate sheet of paper	

I make this ..... words, at .....1p..... per word so I owe you £ .....

Name .....

Address .....

.....

.....

Telephone .....

Please cut out and send this form to: A.S.M. 20, Newtown St., DUNS.

Why don't you put an ad. in the A.S.M. Magazine where everyone will see it. We charge you a fee per. word.

It is 1p a word for one week in the magazine. That is 50% down from the last issue.

So ADVERTISE in A.S.M. and let yourself be heard.

We retain the right to censor your advertisement so don't write anything stupid, disgusting, or nasty

LOOK! This baby bought an A.S.M. Magazine

and look what happened to him!

REVIEWS

PROGRAM : Charlie and the Chocolate Factory
PRICE : £9.95
MICRO : Spectrum
SUPPLIER : Hill MacGibbon
8 Grafton Street
LONDON W1X 3LA

If you think of Charlie and the Chocolate Factory, not as anything dramatically wonderful or original, but as five reasonable arcade games for £9.95 then its rather good.

This is loosely related to the famous book by Roald Dahl and included in the £9.95 is a copy of the book.

There are four single screen games of various kinds, Augustas Gloop is a sort of sliding-block puzzle, Veruca Salt is a dodge game as is Violet Beauregarde and Mike Teavee is a platform / collect game.

There is a multi-screen Miner -style affair on the other side of the tape where you try to get through the machines of the chocolate factory and collect six golden keys.

Not as good as Manic Miner, but it's OK and is a reasonable way of getting a number of competent arcade games very cheaply

PROGRAM : Leonardo
PRICE : £7.95
MICRO : Spectrum 48K
SUPPLIER : Creative Sparks
Thorn EMI
Computer Software

Calling a graphics program Le onardo could be seen as foolhardy self confidence, making a comparison with the great artist himself.

Leonardo is one of the better offerings in this highly competitive market.

Freehand drawing by cursor keys or even better by joystick, is catered for with line, rubber-banding, variablebrush width etc.

The cursor can draw continuous or broken lines and there are also very good circle, arc, and eclipse commands.

The windowing commands allow for picture element manipulation, such as magnification and mirror imaging.

Details can be held in memory and repeated as a brush pattern. Windows or the full screen can be scrolled as well, which is useful for avoiding attribute problems. The UDG system is not very good but putting them in the picture is relatively easy.

My main criticism is it is far from being user friendly.

MORE POKES

Knightlore- type CLEAR 40000:LOAD "" as for Underwurlde. When OK appears POKE 24745,251:POKE 24754,251:POKE 24792,207:POKE 24793, 193:RANDOMISE USR 24744. Ignore the error, NEW and you can now enter your routines at address 62425 onwards.However, since there are a lot of things to do on this game, it will probably be simplest if you just type POKE 62425,251:POKE 62422,201:RANDOMISE USR 62374. This will load in the main block of code and dump you back into basic.

Once this is done, POKE 53567,0 will give infinite lives POKE 50087,201 will stop metamorphosis POKE 50206,0 will give indefinite days or POKE 49759,n where n is the number of objects to be collected. If you also POKE 54562,195:POKE 54563,108: POKE 54564,175 it will allow you to restart the game by pressing the pause key which is useful if you have infinite lives. RANDOMISE USR 24832 will start the game.

If you want to see something really special then enter this short routine FOR N=26796 TO 26813:INPUT A:POKE N,A:NEXT N (ENTER). Then enter these numbers in turn 7 154 162 155 163 156 165 157 165 64 220 29 2 74 146 5 77 149

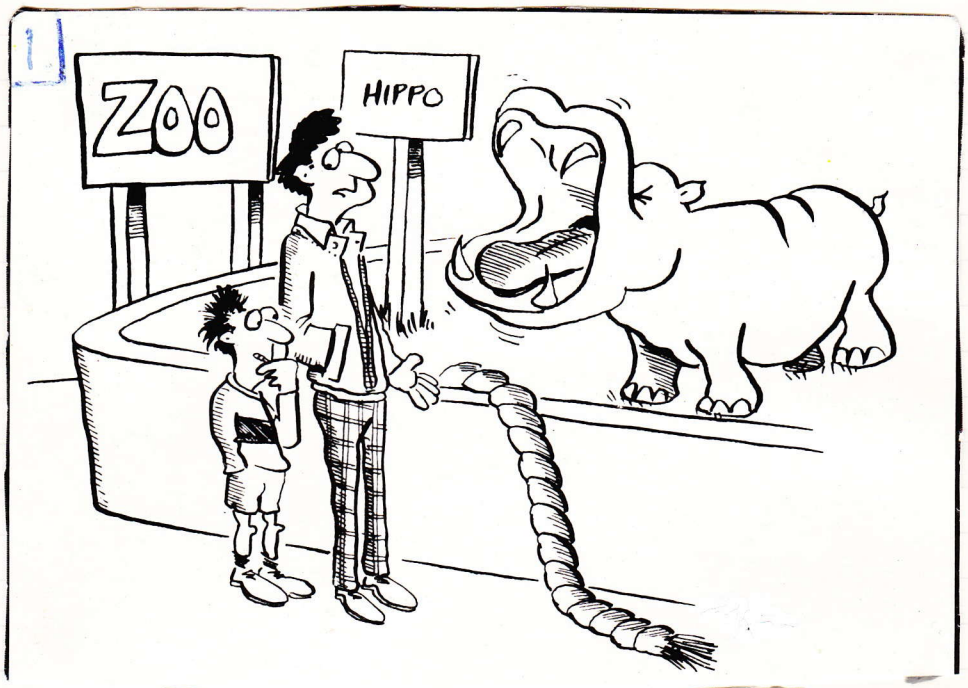
FREE - NO ENTRANCE FEE FOR ANY OF THE COMPETITIONS!

COMPETITION PAGE

YES, THIS MONTH JUST TO PROVE HOW GENEROUS WE ARE AT A.S.M WE ARE DEDICATING 2 WHOLE PAGES TO COMPETITIONS AND PUZZLES. UNDER EACH COMPETITION ARE THE INSTRUCTIONS AND THE PRIZE FOR THAT COMPETITION.

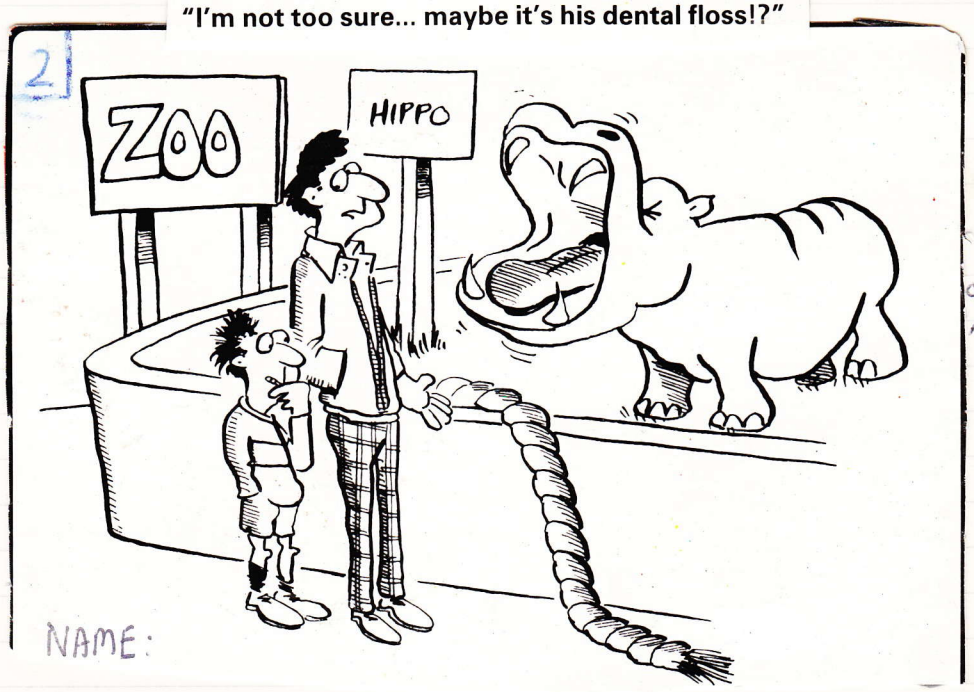
1)

Free!



Free!

"I'm not too sure... maybe it's his dental floss!?"



NAME:

SPOT THE TWELVE DIFFERENCES, ARROW THEM AND RETURN PICTURE 2 TO US, YOU COULD WIN A 'ROLANDS RAT RACE POSTER'! (JUST WHAT YOU'VE ALWAY'S WANTED!) See issue 5 (march)

2) WHY NOT DESIGN A POSTER TO ADVERTISE A.S.M. AND WIN A HUNCHBACK 2 AND KONG 2

3) POSTER! WHY NOT DESIGN A COVER AND YOU COULD WIN ANOTHER COLOUR POSTER.

OVER THE PAGE THERE IS A WORD SQUARE JUST FILL IT IN AS SHOWN AND RETURN TO US AND YOU COULD WIN A SMALL 'MATCH DAY' POSTER.

JUST ENTERING A HALF EMPTY SHEET COULD WIN YOU SOMETHING.

REMEMBER: YOU CAN'T WIN IF YOU DON'T ENTER.

4)

ABOUT
AGOUTI
BOUTIQUE
FLOUT
GOUT
LOUT
OUTCAST
OUTCROP
OUTCRY
OUTER
OUTFLOW
OUTHOUSE
OUTLAW
OUTLAY
OUTLET
OUTPUT
OUTRIDER
OUTRIGHT
OUTRUN
OUTSET
OUTSIDER
OUTSIZE
OUTSPAN
OUTSTARE
OUTWEIGH
OUTWIT
OUTWORN
POUT
ROUT
ROUTE
ROUTINE
SCOUT
SHOUT
SNOUT
SOUTHERN
SPOUT
SPROUT
STOUT
TOUT
TROUT

CIRCLE EACH WORD AS YOU FIND IT.

NAME _____

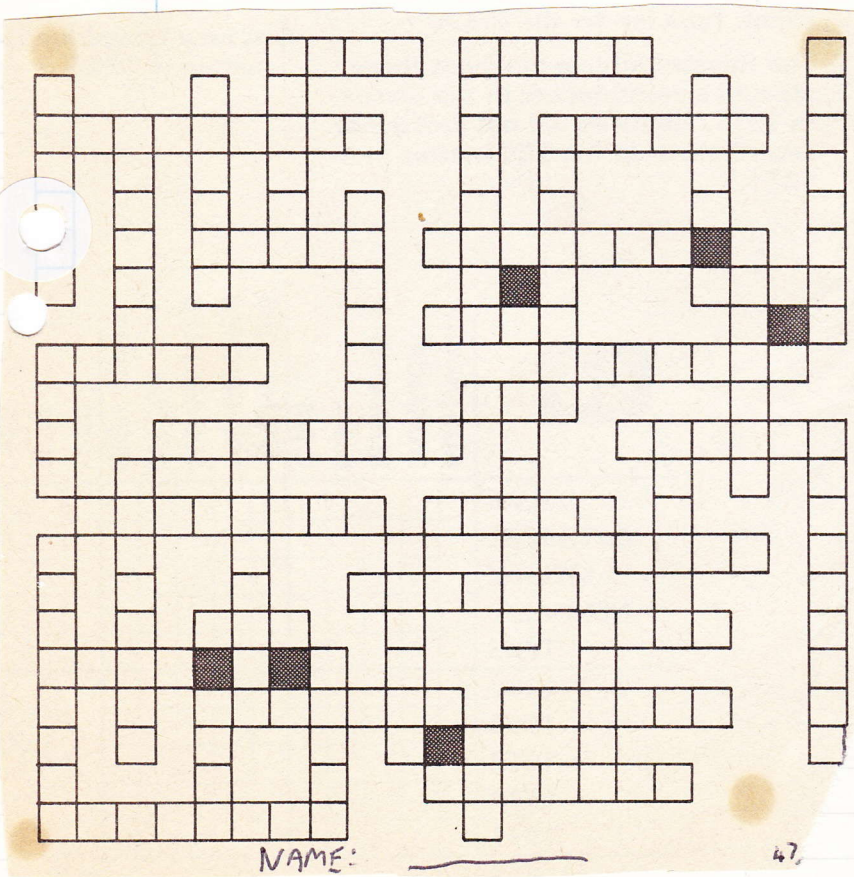
A	S	C	O	U	T	K	C	A	D	E	S	O	F	H
S	B	A	R	U	G	N	B	G	R	N	O	U	N	G
P	N	O	O	O	B	O	T	O	O	T	U	T	E	I
R	R	P	U	U	U	U	U	U	G	U	T	C	S	E
O	E	H	T	T	T	T	T	T	O	P	C	R	U	W
U	H	K	I	J	I	S	E	I	U	T	A	O	O	T
T	T	Q	T	N	T	T	I	L	T	U	S	P	H	U
T	U	U	E	R	U	M	N	D	L	O	T	G	T	O
E	O	O	O	O	O	U	T	S	E	T	I	N	U	W
O	S	U	L	P	H	U	T	P	T	R	R	T	O	A
U	R	F	T	Q	S	R	T	I	T	O	S	L	U	L
T	O	U	T	S	I	Z	E	U	W	T	F	V	T	T
R	E	D	I	R	T	U	O	T	A	T	W	I	C	U
U	O	U	T	L	A	Y	U	R	U	P	U	Y	R	O
N	A	P	S	T	U	O	E	O	X	O	K	O	Y	V

31

5)

↓FIT THE NAMES OF THESE STARS INTO THE GRID.↓

AND WIN A 'GIFT FROM THE GODS' POSTER. JUST SEND US THE GRID AND YOU MIGHT WIN.



NAME: _____ 47

3 LETTER
FOX
LEE
LOY

4 LETTER
AUER
BALL
HOPE
KENT
MARX
PECK
REED
RIGG
WEST

5 LETTER
DAVIS
DONAT
FONDA
MARCH
WAYNE

6 LETTER
ARLISS
BRANDO
CROSBY
GAYNOR
HESTON
HOLDEN
LAUREL
MARVIN
ROGERS
ROONEY

7 LETTER
ANDREWS
ASTAIRE
BRYNNER
COLBERT
HAYWARD
MILLAND
OLIVIER
STEIGER

8 LETTER
DIETRICH
FONTAINE
GUINNESS
HARRISON
HOLLIDAY
JANNINGS
PICKFORD
SCOFIELD
SIGNORET

9 LETTER
LANCASTER
ROBERTSON

REMEMBER: WRITE YOUR NAME ON ALL YOUR ENTRIES.

COMPETITION CORNER

On this page from now on we shall have a competition. There will be a puzzle which you have to work out and the first person to hand in a correct set of answers will recieve printouts and a poster.

QUIZ 1: Two people Jake and Hank are two old two-timers who live next to each other on Peartree Boulevard.
Jake is very keen at figuring and he found that the product of their two addresses could be said to equal 'PEARTREE'. For example, if the street numbers were 7933 and 7934 (they differ by just one) then the product would be 62940422. If this is compared with the word PEARTREE it can be seen that like digits correspond to like letters.

PEARTREE
62940422

However, in the case of Jack and Hank, all the digits in their addresses are also to be found in the product, which is not the case in the example given (there is no 7 or 3 in the product). What are their addresses.?

*******NEWS FLASH FROM ASM*******

THE AGREEMENT WITH CLIVE SINCLAIR AND ROBERT MAXWELL HAS NOW BROKEN DOWN. MAXWELL HAS BACKED AWAY FROM THE AGREEMENT AND SAYS THAT HIS TAKE OVER BID "JUST DID NOT GEL".SIR CLIVE HOWEVER DOES NOT SEEM TOO WORRIED AS DUE TO HIS QL EXPORTS TO AMERICA HIS SALES ARE NOW UP TO 80% OF LAST YEARS FIGURES. TO HELP CLIVE OUT DIXON'S ARE NOW THINKING OF SELLING A NEW SPECTRUM PLUS PACKAGE CONSISTING OF THE PLUS,A JOYSTICK,A JOYSTICK INTERFACE,A DATA RECORDER AND TEN SOFTWARE TITLES ALL FOR £139.99.

POKES GALORE

This little program allows you to produce a new header for any spectrum program and prevent it from auto-running.
Simply follow the prompts to produce your new header, then run the program, insert the original game and save the new header onto a blank tape.Then reset the computer by using RAND USR 0.

```
10 REM TO COPY HEADER BLOCKS
   OF PROGRAMS SO THAT THEY
   DO NOT AUTO-RUN
20 FOR A=60000 TO 60025
30 READ B: POKE A,B
40 NEXT A
50 CLS : PRINT AT 1,1; "INSERT O
RIGINAL GAME AND PRESS PLAY
60 RANDOMISE USR 60000 : REM TO
LOAD HEADER
70 PRINT AT 10,1; "HEADER LOADED
"
80 POKE 32014,128
90 PAUSE 200
100 CLS : PRINT AT 1,1; "INSERT
BLANK TAPE TO COPY HEADER ONTO"
110 PRINT AT 21,1; "START TAPE A
ND PRESSANY KEY"
120 IF INKEY$="" THEN GOTO 120
130 RANDOMISE USR 60014 : REM TO
 SAVE NEW HEADER
140 PRINT AT 10,1; "NEW HEADER S
AVED"
150 STOP
1000 DATA 221,33,0,125,17,17,0,6
2,0,55,205,86,5,201
1010 DATA 221,33,0,125,17,17,0,1
75,205,194,4,201
```

Now follow these steps to get the desired effects for UNDERWURLDE.
Type CLEAR 40000:LOAD "". Play the new header, followed by the original tape which has been wound past its own header. When the OK message appears stop the tape. Type POKE 24791, 251:POKE 24792, 207:RANDOMISE USR 24740.
Ignore the error message that appears and type NEW.Then from 62421 onwards poke the following numbers for infinite lives 62,0,50,240,231,50,244,231,195,242,103; or to stay immortal after finding a gem 62,0,50,153,148,50,154,148,195,242,103;or to make weapons appear in the same place each game 62,0,50,199,232,195,242,103;or for no enemy in the game 62,201,50,219,175,195,242,103.
Finally type RANDOMISE USR 62374 to start the main machine code loading.

CARTOON PAGE

C5 UPDATE.

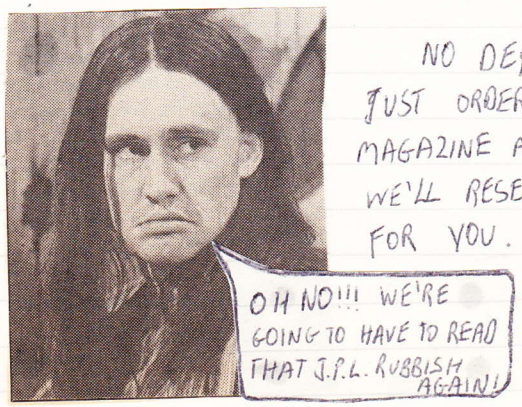
YOU MAY WELL REMEMBER THAT IN THE FEBRUARY ISSUE OF THIS YEAR WE DID AN ARTICLE ON THE C5'S AND THEIR CAPABILITIES WELL NOW (AT GREAT EXPENSE TO A.S.M) WE HAVE SENT OUT A REPORTER TO SAMPLE THIS PRODUCT FOR YOU. I CAN NOW (FROM EXPERIENCE) TAKE BACK MOST OF THE NASTY THINGS I SAID IN THE LAST REPORT AS THE C5'S AREN'T AS BAD AS EVERYONE SEEMS TO BE MAKING OUT. THE RADIUS HOWEVER IS NOT 20 MILES AS CLAIMED BY SIR CLIVE BUT SOMEWHERE NEARER 12 MILES IF YOURE LUCKY, AS THE BATTERY RUNS OUT QUITE QUICKLY AND MORE SO DEPENENDING ON HOW LONG YOU KEEP YOUR FINGER ON THE TOUCH SENSITIVE MOTOR CONTROL SITUATED ON THE UNDERSIDE OF THE LEFT HANDLEBAR. HOWEVER YOU HAVE AMPLE WARNING OF WHEN THE BATTERY IS DUE TO RUN OUT AS YOU HAVE A SMALL ELECTRONIC GAUGE IN FRONT OF YOU WHICH CONSISTS OF SMALL COLOURED BLOCKS WHICH SLOWLY DISAPPEAR AS YOUR BATTERY POWER DIMINISHES. WHEN YOU ARE DOWN TO ONE COLOUR BLOCK A HIGH PITCHED ALARM SOUNDS TO WARN YOU TO START PEDELING! HOWEVER THE C5 ALSO HAS SOME FAULTS WHICH NEED MENTIONING. FOR A START THE MOTOR IS NOT POWERFUL ENOUGH TO START THE VEHICLE ALL BY ITSELF TO START YOU MUST PEDEL AS WELL TO HELP THE HOOVER ENGINE ALONG. I ALSO FOUND A SMALL ERROR IN THE DESIGN-IF YOU STOP WITH THE PEDALS IN A CERTAIN POSITION IS IS NEARLY IMPOSSIBLE TO START AGAIN AND IF YOU PEDAL BACKWARDS THE CHAIN USUALLY COMES OFF THIS MEANS THAT IT IS POSSIBLE TO BECOME STRANDED OUT IN THE MIDDLE OF NO-WHERE WITH A FLAT BATTERY AND A BROKEN CHAIN!

ONE GOOD THING ABOUT THE DESIGN HOWEVER IS THE FACT THAT WHEN YOU GO THROUGH PUDDLES THE WATER IS DIRECTED DOWN BACK ONTO THE GROUND INSTEAD OF UP IN FRONT FOR YOU TO DRIVE INTO OR OVER THE SIDES OF THE VEHICLE. THERE IS ALSO A HOLE IN THE SEAT WHICH ALLOWS THE WATER THAT COLLECTS IN THE C5 IN THE RAIN TO DRAIN AWAY BUT THE DESIGN DOES NOT ALLOW WATER TO BE SPLASHED UP THROUGH THE HOLE ONTO THE SEAT.

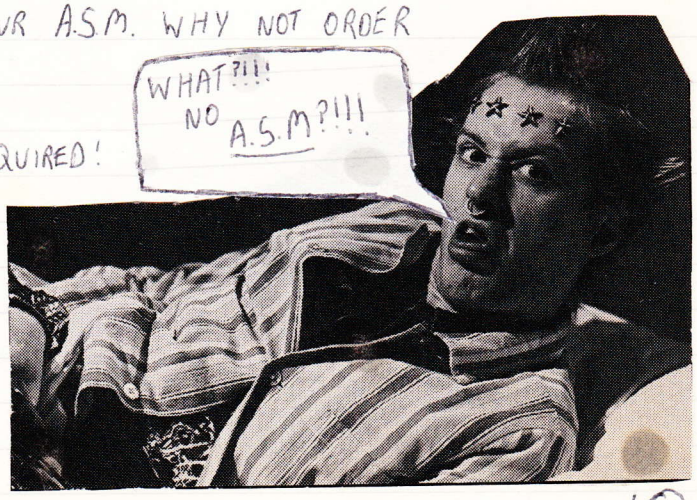
THE C5'S HAVE NOW INFACT DECREASED IN PRICE AND AFTER A GREAT DEAL OF EXPENSIVE RESEARCH WE HAVE DECIDED THAT £299 IS PROBABLY THE BEST C5 ASKING PRICE AROUND.

A Brown.

DONT GET ANNOYED IF YOU HAVENT YOUR A.S.M. WHY NOT ORDER ONE AND BE SURE OF YOUR COPY?



NO DEPOST REQUIRED! JUST ORDER YOUR MAGAZINE AND WE'LL RESERVE IT FOR YOU.



SPECTRUM AND ZX81 PAGE.

ONE OF THE disadvantages of any sort of input on the ZX81 is the computer's lack of an auto repeat facility on its keys.

This program gives you just that. It works by intercepting the display interrupt (called 50 times a second) using interrupt mode 2. The routine is held at 7F20 onwards.

If a key is held down for a short while (adjust this by poking 32566 with a value from one to 255) then the routine continuously sets the debounce system variable to 0, making the operating system think it has received a new keypress.

Enter the hex loader followed by the hex code in the disassembled listing. Delete lines 10-90 and then enter the second program. Run to save. To call the routine Randomise Usr 32537.

```
7F01 POP DE              D1
7F02 LD BC,7F19          01 19 7F
7F05 PUSH BC             C5
7F06 PUSH DE             D5
7F07 LD A,1E             3E 1E
7F09 LD I,A              ED 47
7F0B LD A,DD             3E DD
7F0D LD B,F7             06 F7
7F0F DJNZ -2             10 FE
7F11 LD BC,1901          01 01 19
7F14 IM 1                ED 56
7F16 JP 38               C3 38 00
7F19 PUSH AF             F5
7F1A LD A,7E             3E 7E
7F1C LD I,A              ED 47
7F1E IM 2                ED 5E
7F20 LD A,(4025)         3A 25 40
7F23 CP FF               FE FF
7F25 JR NZ,7             20 07
7F27 LD A,00             3E 00
7F29 LD (4021),A         32 21 40
7F2C POP AF              F1
7F2D RET                 C9
7F2E LD A,(4021)         3A 21 40
7F31 INC A               3C
7F32 LD (4021),A         32 21 40
7F35 CP 0A               FE 0A
7F37 JR NC,2             30 02
7F39 POP AF              F1
7F3A RET                 C9
7F3B LD A,00             3E 00
7F3D LD (4027),A         32 27 40
7F40 POP AF              F1
7F41 RET                 C9
7F42 NOP                 00
```

HEXIDECIMAL

HEX-LOADER

```
  1 REM ....AT LEAST 68 DOTS...
.....................................
.....................................
..........
  10 POKE 16514,1
  20 POKE 16515,127
  30 LET A=16516
  40 LET A$=""
  50 IF A$="" THEN INPUT A$
  60 POKE A,16*CODE A$+CODE A$(2
)-476
  70 LET A=A+1
  80 LET A$=A$(3 TO )
  90 GOTO 50
   5 SAVE "REPEAT"
  10 FOR A=0 TO 67
  20 POKE 32511+A,PEEK (16514+A)
  30 NEXT A
  40 POKE 16389,126
  50 NEW
TO START ROUTINE TYPE- RAND USR
32537
```

← YOUR ZX81 PROGRAM

ASM BREAKING NEW FRONTIERS....

YES FROM NOW ON A.S.M WILL ALSO BE PUBLISHING PROGRAMS FOR THE ELECTRON AND BBC B COMPUTERS. SO NOW ASM WILL BE BRINGING YOU (AT GREAT EXPENSE). PRINT-OUTS FOR FOUR COMPUTERS.

NEXT MONTH:

PROGRAMS FOR ALL FOUR COMPUTERS AND THE START OF A NEW ZX81 MACHINE CODE TUTORING COURSE. DONT MISS IT!!!

YOUR ZX SPECTRUM PROGRAM ↓

```
10 LET a=.5
[redacted]
30 BEEP a,2: BEEP .25,-1: BEEP .25,0: BEEP a,2: BEEP a,2: BEEP a,2: BEEP a,2:
BEEP a,2: BEEP .25,0: BEEP .25,2: BEEP a,3: BEEP a,3: BEEP a,3: BEEP a,3: BEEP .
25,5: BEEP .25,7: BEEP a,8: BEEP a,8: BEEP a,8: BEEP a,8: BEEP a,9: BEEP a,10: B
EEP a,7: BEEP a,2: BEEP a,-1: BEEP a,2: BEEP a,3: BEEP a,0: BEEP 2,-2:
[redacted]
[redacted]
50 BEEP .25,7: BEEP .25,5: BEEP a,3: BEEP a,7: BEEP a,7: BEEP .25,7: BEEP .25,
5: BEEP a,3: BEEP 1,7: PAUSE 10: BEEP a,7: BEEP a,-1: BEEP a,7: BEEP a,7: BEEP .
25,7: BEEP .25,5: BEEP 1,-1: PAUSE 10: BEEP a,7: BEEP a,8: BEEP a,8: BEEP a,8: B
EEP .25,8: BEEP .25,8: BEEP .25,8: BEEP a,8: BEEP a,8: BEEP .25,8: BEEP a,0: BEE
P a,0: BEEP a,0: BEEP a,0: BEEP 1,0:
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