

# Personal Computing Today

JANUARY 1983

65p

NEW YEAR  
ISSUE

**COMPUTER  
ARCADE  
GAMES**

**How to beat  
the systems**

**IS THERE  
ANYTHING  
MISSING  
FROM THE  
LYNX?**

**SOFTWARE  
REVIEWS**

**Games galore**

**FACTFILE**

**Micro buying?**

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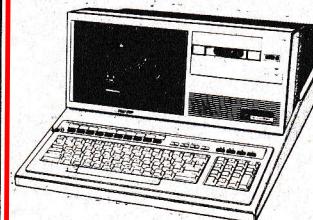
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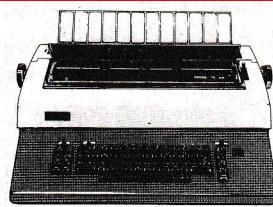
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# SOFTWARE FROM ASP

## THE WHITE BARROWS Program approximately 8K

Somewhere amid this maze of burial chambers lurks an Evil Sorcerer whom you need to trap. Trouble is, he's protected by Trolls, Dwarves, Serpents and the occasional Dragon or two! Your magic staff will block the tunnel to prevent him escaping...unless, that is, he outwits you.

A real brain twister, White Barrows requires both brains and brawn from its players. It's no good just hacking your way through the Barrows and hoping to fall over the Sorcerer. Eventually you'll meet a Dragon -- and they don't hack easily! You'll need all your cunning and strength to survive this one for long.

## CONQUERING EVEREST Program approximately 11K

So, you think climbing mountains is all about scrambling over rocks? This superb piece of programming will soon change all that!

You are in charge of an expedition comprising 18 climbers, 34 Sherpas and 40 Porters. There is food, tents and equipment for all, including the oxygen you'll need as you near the summit. Trouble is, it all starts at the BOTTOM of the mountain and you have to get it all to the TOP! Each route upward must be forced and any camp you make must be properly supplied, otherwise the expedition members will retreat down the mountain.

The monsters in this game are avalanches, starvation, storms and, worst of all, bad planning! A real, thinking man's adventure, Everest will test your skill and forward planning to the limit.

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Please send me... tape(s) of White Barrows

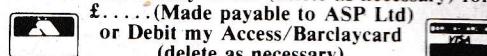
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TRS-80  BBC

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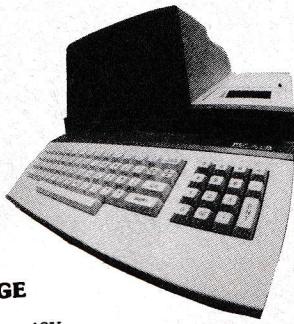
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# REFERENCE

## FACTFILE

### SHARP MZ-80A



Sharp UK Ltd,  
Thorn Road,  
Newton Heath,  
Manchester  
M10 9BE  
Tel: 061-205 2333

#### STANDARD PACKAGE

Memory Size (RAM)	48K
Screen Size	25 lines of 40 characters
Expansion Sockets	BUS connector
Tape Included?	Yes
Display Unit Included?	Yes
Usable Domestic TV?	No
Size of BASIC	12K
Average Price	£549

#### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	No	£450-800
Printer	Yes	—
Monitor	N/A	£600
Disc Drives	Yes, dual	£45
Other Languages	Yes	—
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

#### OTHER ADD-ONS:

None Reported

### SHARP MZ-80K



Sharp UK Ltd,  
Thorn Road,  
Newton Heath,  
Manchester  
M10 9BE

#### STANDARD PACKAGE

Memory Size (RAM)	48K
Screen Size	25 lines of 40 characters
Expansion Sockets	BUS connector
Tape Included?	Yes
Display Unit Included?	Yes
Usable Domestic TV?	No
Size of BASIC	12K
Average Price	£350

#### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	No	—
Printer	Yes	£450-800
Monitor	N/A	—
Disc Drives	Yes, dual	£600
Other Languages	Yes	£45 upwards
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

#### OTHER ADD-ONS:

None Reported

### SHARP MZ-80B

Sharp UK Ltd,  
Thorn Road,  
Newton Heath,  
Manchester M10 9BE



#### STANDARD PACKAGE

Memory Size (RAM)	64K
Screen Size	25 lines of 40 or 80 characters
Expansion Sockets	BUS connector
Tape Included?	Yes
Display Unit Included?	Yes
Usable Domestic TV?	No
Size of BASIC	16K
Average Price	£990

#### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	Yes	£120
Printer	Yes	£450-800
Monitor	N/A	—
Disc Drives	Yes, dual	£600
Other Languages	Yes	£45
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

#### OTHER ADD-ONS:

Multi-vision and triple-vision, Datron Micro Centre, 2 Abbeydale Road, Sheffield S7 1FD, £35-79

### SINCLAIR ZX81

Sinclair Research,  
6 Kings Parade,  
Cambridge CB2 1SN



#### STANDARD PACKAGE

Memory Size (RAM)	1K
Screen Size	24 lines of 32 characters
Expansion Sockets	BUS connections
Tape Included?	No
Display Unit Included?	No
Usable Domestic TV?	Yes
Size of BASIC	8K
Average Price	£49.95 kit, £69.95 built

#### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	16K RAM pack	£29.95
Printer	ZX Printer	£59.95
Monitor	No	—
Disc Drives	No	—
Other Languages	No	—
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

#### OTHER ADD-ONS:

Memory expansion unit 16K or 64K, Memotech Ltd, 3 Collins St, Oxford OX4 1XL, £39.95-79; Key Bleep Unit, Microtronix, 3 Buxton Avenue, Coulton, Nottingham, NG4 3RR, £8.85 kit, £9.95 built; Maximem 1.1, East London Robotics, Finlandia House, 14 Darwell Close, East Ham, London, E6 4BT, £93.50; Music Synthesiser + 16 line control port, William Stuart Systems Ltd, Dower House, Billicay Road, Herongate, Brentwood, Essex CM13 3SD, £19.50; Full-size keyboard, Protos Computer Systems, Frome Computing, 20 Ashtree Road, Frome, Somerset, BA11 2SF, £64.95; ZX99 Automatic tape control, Data-cassette, 44 Shrotton Street, London NW1 6UG, £59.95.

# REFERENCE

## SOFTWARE LISTING

### SHARP

Title	Program Type	Program Produced By	Memory Reqd	How Sold	Supplier Code	Prices	Progress	
							Progress	Produced By
3-D Basic	Gm	Kuma	6K	C AX,AO,AB		£6.32		
Address Book	Gm	Highlight S/W	4K	C CC,AB		£4.60		
Agent 007	Gm	DCS	24K	C JQ		£3.00		
Aladdin's Cave	Gm	Kuma		C AX,CH		£6.32		
Aldebaran I	Gm	Sharpsoft	20K	C CH		£5.85		
Alien Attack	Gm	J Wolstencroft	24K	C CZ		£4.60		
Analysis Book	Bs	Microtek	48K	C EQ		£95.00		
Animate	Gm	Kuma	48K	C AX,AB,AO		£9.20		
Apollo Front Panel	Bs	Kuma	20K	C AX		£14.35		
Apolloword	Bs	Kuma	48K	C AX,AC,AO		£28.70		
Apolloword	Bs	Kuma	48K	D AX,AC,AO		£63.25		
Ardensoft Toolkit	Ut	Kuma	20K	C AX		£40.25		
Artillery/Biorythms	Gm	DCS	24K	C JQ		£3.00		
Asteroids	Gm	Sharpsoft	20K	C CH		£5.85		
Astro Dodge	Gm	Kuma		C AX,CH		£6.32		
Auto Cross	Gm	Highlight S/W	6K	C CC,AB		£4.60		
Backgammon	Gm	Highlight S/W	10K	C CC,AB		£5.75		
Bank Account	Do	Highlight S/W	6K	C CC,AB		£4.60		
Basic Compiler	Ut	Sharp	48K	C AB		£34.50		
Basic Extensions	Ut	Kuma	20K	C AX,AO,AB		£14.95		
Basic Plus	Ut	Kuma		C AX		£13.80		
Battleships	Gm	DCS	24K	C JQ		£3.00		
Bean Feast	Gm	DCS	24K	C JQ		£3.00		
Bio-Rhythm	Gm	Highlight S/W	6K	C CC,AB		£4.60		
Block QC	Gm	Sharpsoft	20K	C AB		£3.50		
Block Stop	Gm	J Wolstencroft	24K	C CZ		£4.60		
Blockade	Gm	Kuma	48K	C AX,AO,AB		£6.32		
Bomber	Gm	Kuma	6K	C AX,AO,AB		£6.32		
Breakout	Gm	Kuma	48K	C AX,AO,AB		£6.32		
Breakout	Gm	Sharpsoft	20K	C AB		£5.75		
Bridge	Gm	Highlight S/W	22K	C CC		£12.95		
Brownian Motion	Ed	Kuma		C AX		£12.00		
CPM	Ut	Chrystal	48K	C AX,AO		£172.50		
Calc II	Bs	Kuma	20K	C AX,AO,FZ		£39.65		
Camelot	Gm	Kuma	48K	C AX,AC,AB		£6.32		
Carols	Gm	Kuma	48K	C AX,AO,AB		£6.32		
Cash Book	Bs	Microtek	48K	C EQ		£95.00		
Casino	Gm	Kuma		C AX		£6.32		
Catch 2000/Invader	Gm	Kuma	12K	C AX,AO,AB		£6.32		
Cesil III	Ed	Kuma	20K	C AX		£17.20		
Chase	Gm	Highlight S/W	6K	C CC,AB		£5.75		
Chess	Gm	Kuma	12K	C AX,AO,FZ,CH		£12.95		
Children's Maths	Ed	Kuma		C AX		£6.32		
Chrystal Basic	Ut	Chrystal	48K	C AX,AO		£46.00		
Colditz	Gm	Sharpsoft	20K	C CH		£8.46		
Combat	Gm	Highlight S/W	6K	C CC,AB		£5.75		
Combat	Gm	Kuma	12K	C AX,AO,AB		£6.32		
Commands	Gm	Sharpsoft	20K	C AB		£5.85		
Composer	Gm	Highlight S/W	6K	C CC,AB		£5.75		
Concentration	Gm	Kuma	12K	C AX,AO,AB		£6.32		
Connect 4	Gm	Highlight S/W	6K	C CC,AB		£4.60		
Connect Four	Gm	DCS	24K	C JQ		£3.00		
Cosmiad	Gm	Highlight S/W	10K	C CC,AB		£5.75		
Cosmiad	Gm	Kuma	12K	C AX,AC,AO,AB		£9.20		
Count and Add	Ed	Highlight S/W	22K	C CC,AB		£5.75		
Cribbage	Gm	Kuma	12K	C AX,AO		£12.00		
Cricket	Gm	Kuma		C AX		£6.32		
Cursed Chambers	Gm	J Wolstencroft	48K	C CZ		£5.75		
Data Base	Bs	Kuma	48K	C AX,AO		£33.95		
Data File	Gm	Gamer	48K	C CZ		£29.95		
Deferment Allowances	Bs	DCS	32K	C JQ		£3.00		
Demons Castle	Gm	DCS	48K	C JQ		£3.00		
Demon Drive	Gm	DCS	24K	C JQ		£3.00		
Disassembler	Ut	Kuma	20K	C AX,AO,AB		£12.00		
Donky Derby	Gm	Kuma	12K	C AX,AO,AB		£6.32		
Double Precision Basic	Ut	Sharp	48K	C AB		£28.75		
Double Precision Basic	Ut	Sharp	48K	D AX		£46.00		
Drunken Driver	Gm	Highlight S/W	6K	C CC,AB		£5.75		
Dubbug	Gm	Highlight S/W	6K	C AX		£16.65		
Editor Assembler	Ut	Kuma	48K	C AB		£15.50		
Editor Assembler	Ut	Sharp	48K	D AX		£51.75		
Election '84	Gm	Sharpsoft	20K	C CH		£8.45		
Electronic Organ	Gm	Kuma	12K	C AX		£6.32		
Electronic Organ	Gm	DCS	24K	C JQ		£3.00		
Electrons I	Ed	Kuma		C AX		£12.00		
Electrons II	Ed	Kuma		C AX		£12.00		
Empire II	Gm	Sharpsoft	20K	C AB		£5.85		
Enigma	Gm	Kuma	12K	C AX		£6.32		
Entrepreneur	Gm	DCS	48K	C JQ		£3.00		
Escape Forth	Gm	J Wolstencroft	24K	C CZ		£4.60		
Evasion	Gm	Kuma	6K	C AX,AO		£6.32		
Executive	Gm	Kuma	6K	C AX,AB		£9.20		
Exploring Africa	Gm	Kuma	6K	C AX,AB		£6.32		
F DOS	Ut	Sharp	48K	C AB		£57.50		
Fall Out	Gm	Kuma	6K	C AX,AO		£6.32		
FRED	Gm	DCS	48K	C JQ		£3.00		
Finance	Bs	DCS	24K	C JQ		£3.00		

Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	10K	C CC,AB		£5.75		
Ut	Kuma			C AX		£40.20		
Bs	Microtek		48K	C EQ		POA		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£4.60		
Gm	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
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Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
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Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
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Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		
Ed	DCS		24K	C JQ		£3.00		
Gm	Kuma	Highlight S/W	6K	C AX,AB		£6.32		
Gm	Kuma	Highlight S/W	6K	C CC,AB		£6.32		

Rhymes	Gm	Kuma	48K	C	AX,AB	£6.32	Amateur Log	Ut	Molimerx	32K	D	AJ	£18.40
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Rocket	Ed	Kuma		C	AX	£6.32	Touchdown	Gm	Adventure Int.	8K	C	AB	£14.35
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Shudo	Gm	Kuma	48K	C	AX	£6.32	Armoured Patrol	Gm	Adventure Int.	16K	D	AB	£15.00
Simeon	Gm	DCS	24K	C	JQ	£3.00	Ascertain	Ut	Kansas	16K	C	IH	£18.99
Simon	Gm	Kuma	48K	C	AX	£6.32	Assembly Package	Ut	Molimerx	32K	D	AJ	£6.25
Slave Interpreter	Ui	Kuma		C	AX	£16.65	Asteroids	Gm	Molimerx	16K	C	AJ	£74.75
Smugglers	Gm	DCS	24K	C	JQ	£3.00	Asymetrical	Ed	Molimerx	16K	C	AJ	£10.06
Snakes and Ladders	Gm	Kuma	48K	C	AX,AO	£6.32	Astro Navigator	Gm	Molimerx	16K	C	AJ	£10.93
Solid State Non VAT Accounts	Ed	Kuma		C	AX	£33.90	Astroball	Gm	Molimerx	16K	C	AJ	£13.50
Sound Effects	Ut	DCS	24K	C	JQ	£3.00	Astrolog	Ed	Molimerx	16K	C	AJ	£14.95
Solid State VAT Accounts	Ed	Kuma		C	AX	£33.90	Astronomical Calendar	Ed	Molimerx	16K	C	AJ	£13.77
Space Battle	Gm	Kuma	48K	C	AX,AO,AB	£6.32	Asylum	Gm	Med Systems	16K	C	IS	£10.93
Space Invaders	Gm	DCS	24K	C	JQ	£3.00	Atlantian Odyssey	Gm	Guild	16K	C	IS	£12.00
Space Invaders	Gm	Kuma	48K	C	AX,AO,AC,AB	£6.32	Atlantian Odyssey	Gm	Guild	16K	D	AB	£11.50
Space Pursuit	Gm	Kuma	48K	C	AX,AO,AB	£6.32	Attack Force	Gm	Big 5 S/W	16K	C	IS	£19.75
Space Rescue	Gm	DCS	24K	C	JQ	£3.00	BI Nuclear Bomber	Gm	Instant S/W	16K	C	GB	£21.50
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Star Wars 1	Gm	DCS	24K	C	JQ	£3.00	Back 40	Gm	Molimerx	16K	C	AJ	£11.50
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Stock Control	Bs	DCS	48K	C	JQ	£3.00	Back 40 III	Gm	Adventure Int.	16K	C	AB	£12.95
Stomper	Gm	Kuma	10K	C	AX,FZ,AB	£6.32	Backgammon	Gm	Adventure Int.	16K	C	AB	£7.99
Stomper/Minefields	Gm	Sharpsoft	20K	C	AB	£5.85	Backgammon	Gm	Kansas	16K	C	IH	£8.50
Submarine	Gm	Kuma	10K	C	AX,AO	£6.32	Balrog Sampler	Gm	Adventure Int.	16K	D	AB	£33.70
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Supermouse	Gm	Kuma	48K	C	AX,CH	£6.32	Basic Bidding	Gm	Bryants S/W	16K	C	HW	£9.00
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The Lily Pond	Gm	DCS	24K	C	JQ	£3.00	Basic Programming System	Ut	Instant S/W	16K	C	AB	£12.50
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Wordpro	Bs	Kuma	48K	C	AX,AC	£45.45	Blockade	Gm	Molimerx	16K	C	AJ	£7.48
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Adventure I	Gm	Adventure Int.	16K	C	AJ	£13.77	Business Analysis	Bs	Instant S/W	16K	D	GB,AB	£82.00
Adventure III	Gm	Adventure Int.	16K	C	AJ	£13.77	Buzzword	Ed	Molimerx	16K	C	AJ	£5.75
Adventure III	Gm	Adventure Int.	16K	D	AJ	£13.77	Byte Saver	Ui	Kansas	16K	C	IH	£6.25
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Adventure Mysterious	Gm	Adventure Int.	16K	C	AJ	£10.06	Cash Register	Bs	Molimerx	16K	C	AJ	£10.29
Adventure Mysterious	Gm	Adventure Int.	32K	D	AJ	£13.50	Catalogue	Do	Bryants S/W	16K	C	HW	£3.75
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