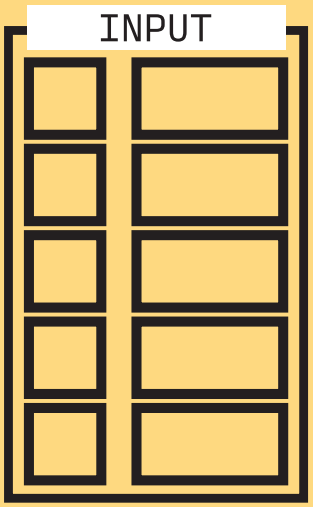
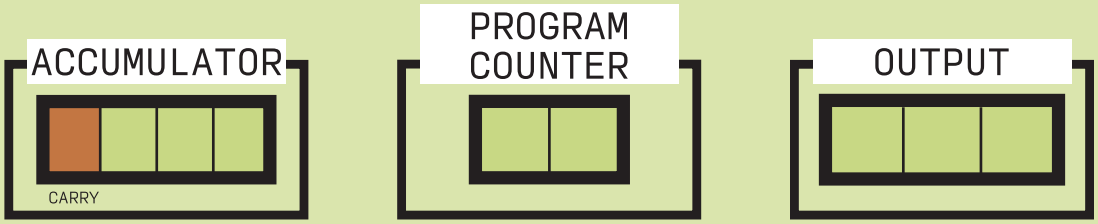
MEMORY

00	001	10		20		30		40		50	
▶ 01		11		21		31		41		51	
02		12		22		32		42		52	
03		13		23		33		43		53	
04		14		24		34		44		54	
05		15		25		35		45		55	
06		16		26		36		46		56	
07		17		27		37		47		57	
08		18		28		38		48		58	
09		19		29		39		49		59	

INPUT



PROCESSOR



PAPERPC
2025.01

A PAPERDYNE PRODUCT

PAPERPC SYNTAX

PaperPC syntax generally follows this formula:

`INSTRUCTION` `CELL NUMBER`

For example, the instruction to LOAD a value from cell 15:

`315`

This instruction loads the value in the cell and places it directly in the accumulator.

Certain instructions take exception to this formula, such as the SFT and various 9-- instructions. These respond to either machine configuration or memory cell-indepedent operations.

Keep in mind that your PaperPC configuration may feature more or less memory, a different stack base (start), and/or a maximum allowable stack height either generous or restrictive.

INSTRUCTION	MNEMONIC	NAME	DESCRIPTION
1--	ADD	ADD	ADD CONTENTS OF CHOSEN CELL TO THE VALUE OF THE ACCUMULATOR.
2--	SUB	SUBTRACT	SUBTRACT CONTENTS OF CHOSEN CELL TO THE VALUE OF THE ACCUMULATOR.
3--	STA	STORE	STORE THE CONTENTS OF THE ACCUMULATOR TO THE CHOSEN CELL.
4LR	SFT	SHIFT	SHIFT THE CONTENTS OF THE ACCUMULATOR LEFT L SPACES, THEN RIGHT R SPACES.
5--	LDA	LOAD	LOAD THE CONTENTS OF THE CHOSEN CELL TO THE ACCUMULATOR.
6--	BRA	UNCONDITIONAL BRANCH	SET PROGRAM COUNTER TO CHOSEN CELL AND PREPARE PAPERPC TO EXECUTE THE INSTRUCTION IN THE CELL CONSECUTIVE TO THE CHOSEN CELL.
7--	BRZ	BRANCH IF ZERO	VERIFY ACCUMULATOR SET TO 000; SET PROGRAM COUNTER TO CHOSEN CELL AND PREPARE PAPERPC TO EXECUTE THE INSTRUCTION IN THE CELL CONSECUTIVE TO THE CHOSEN CELL.
8--	BRP	BRANCH IF POSITIVE	VERIFY ACCUMULATOR CONTENTS ARE GREATER THAN 000; SET PROGRAM COUNTER TO CHOSEN CELL AND PREPARE PAPERPC TO EXECUTE THE INSTRUCTION IN THE CELL CONSECUTIVE TO THE CHOSEN CELL.
901	INP	INPUT	TAKE NEXT AVAILABLE INPUT FROM INPUT MODULE.
902	OUT	OUTPUT	OUTPUT THE CONTENTS OF THE ACCUMULATOR TO THE OUTPUT DISPLAY.
903	PSH	PUSH	PUSH THE VALUE OF THE ACCUMULATOR TO THE PAPERPC'S DEDICATED STACK.
904	POP	POP	POP A VALUE FROM THE PAPERPC'S DEDICATED STACK TO THE ACCUMULATOR.
905	PTR	STACK POINTER	LOAD THE CURRENT VALUE OF THE STACK POINTER TO THE ACCUMULATOR.
906	SHI	STACK HEIGHT	CALCULATES AND PLACES THE CURRENT NUMBER OF VALUES IN THE STACK TO THE ACCUMULATOR.
000	HLT	HALT	TERMINATES PROGRAM.