Mnemonic	Opcode	Step	CF	ZF	HTL	MI	RI	RO	II	IO	AI	AO	EO	SU	BI	OI	CE	CI	CO	FI
FETCH	xxxx	000	x	x	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	xxxx	001	x	x	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0
NOP	0000	010	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0000	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0000	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDA	0001	010	x	x	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0001	011	x	x	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
	0001	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADD	0010	010	x	x	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0010	011	x	x	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	0010	100	x	x	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
SUB	0011	010	x	x	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0011	011	x	x	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	0011	100	x	x	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1
STA	0100	010	x	x	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0100	011	x	x	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	0100	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDI	0101	010	x	x	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	0101	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0101	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMP	0110	010	x	x	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	0110	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0110	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JZ	0111	010	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0111	010	x	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0

Inst																				
JZ	0111	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0111	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JC	1000	010	0	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000	010	1	x	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	1000	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INC	1001	010	x	x	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	1001	011	x	x	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
	1001	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEC	1010	010	x	x	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	1010	011	x	x	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1
	1010	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRT	1101	010	x	x	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1101	011	x	x	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
	1101	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OUT	1110	010	x	x	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
	1110	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1110	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTL	1111	010	x	x	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1111	011	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1111	100	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0