8085 INSTRUCTION SET

INSTRUCTION SUMMARY

DATA TRANSFER INSTRUCTIONS

- MOV Copy from source to destination
- MVI Move immediate 8-bit
- LDA Load accumulator
- LDAX Load accumulator indirect
- LXI Load register pair immediate
- LHLD Load H and L registers direct
- STA Store accumulator direct
- STAX Store accumulator indirect
- SHLD Store H and L registers direct
- XCHG Exchange H and L with D and E
- SPHL Copy H and L registers to the stack pointer
- XTHL Exchange H and L with top of stack
- PUSH Push register pair onto stack
- POP Pop of stack to register pair
- OUT Output data from accumulator to a port with 8-bit address
- IN Input data to accumulator from a port with 8-bit address

ARITHMETIC INSTRUCTIONS

- ADD Add register or memory to accumulator
- ADC Add register to accumulator with carry
- ADI Add immediate to accumulator
- ACI Add immediate to accumulator with carry
- DAD Add register pair to H and L registers
- SUB Subtract register or memory from accumulator
- SBB Subtract source and borrow from accumulator
- SUI Subtract immediate from accumulator
- SBI Subtract immediate from accumulator with borrow
- INR Increment register or memory by 1
- INX Increment register pair by 1
- DCR Decrement register or memory by 1
- DCX Decrement register pair by 1
- DAA Decimal adjust accumulator

CONTROL INSTRUCTIONS

NOP	No operation
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- HLT Halt
- DI Disable interrupts
- EI Enable interrupts
- RIM Read interrupt mask
- SIM Set interrupt mask

BRANCHING INSTRUCTIONS

JMP	Jump unconditionally
JC	Jump on carry
JNC	Jump on no carry
JP	Jump on positive
JM	Jump on minus
JZ	Jump on zero
JNZ	Jump on no zero
JPE	Jump on parity even
JPO	Jump on parity odd
CALL	Call unconditionally
CC	Call on carry
CNC	Call on no carry
СР	Call on positive
СМ	Call on minus
CZ	Call on zero
CNZ	Call on no zero
CPE	Call on parity even
СРО	Call on parity odd
RET	Return unconditionally
RC	Return on carry
RNC	Return on no carry
RP	Return on positive
RM	Return on minus
RZ	Return on zero
RNZ	Return on no zero
RPE	Return on parity even
RPO	Return on parity odd
PCHL	Load program counter with HL contents
RST	Restart

LOGICAL INSTRUCTIONS

CMP	Compare register or memory with accumulator
CPI	Compare immediate with accumulator
ANA	Logical AND register or memory with accumulator
ANI	Logical AND immediate with accumulator
XRA	Exclusive OR register or memory with accumulator
XRI	Exclusive OR immediate with accumulator
ORA	Logical OR register or memory with accumulator
ORI	Logical OR immediate with accumulator
RLC	Rotate accumulator left
RRC	Rotate accumulator right
RAL	Rotate accumulator left through carry
RAR	Rotate accumulator right through carry
CMA	Complement accumulator
CMC	Complement carry

- CMCComplement carrySTCSet carry