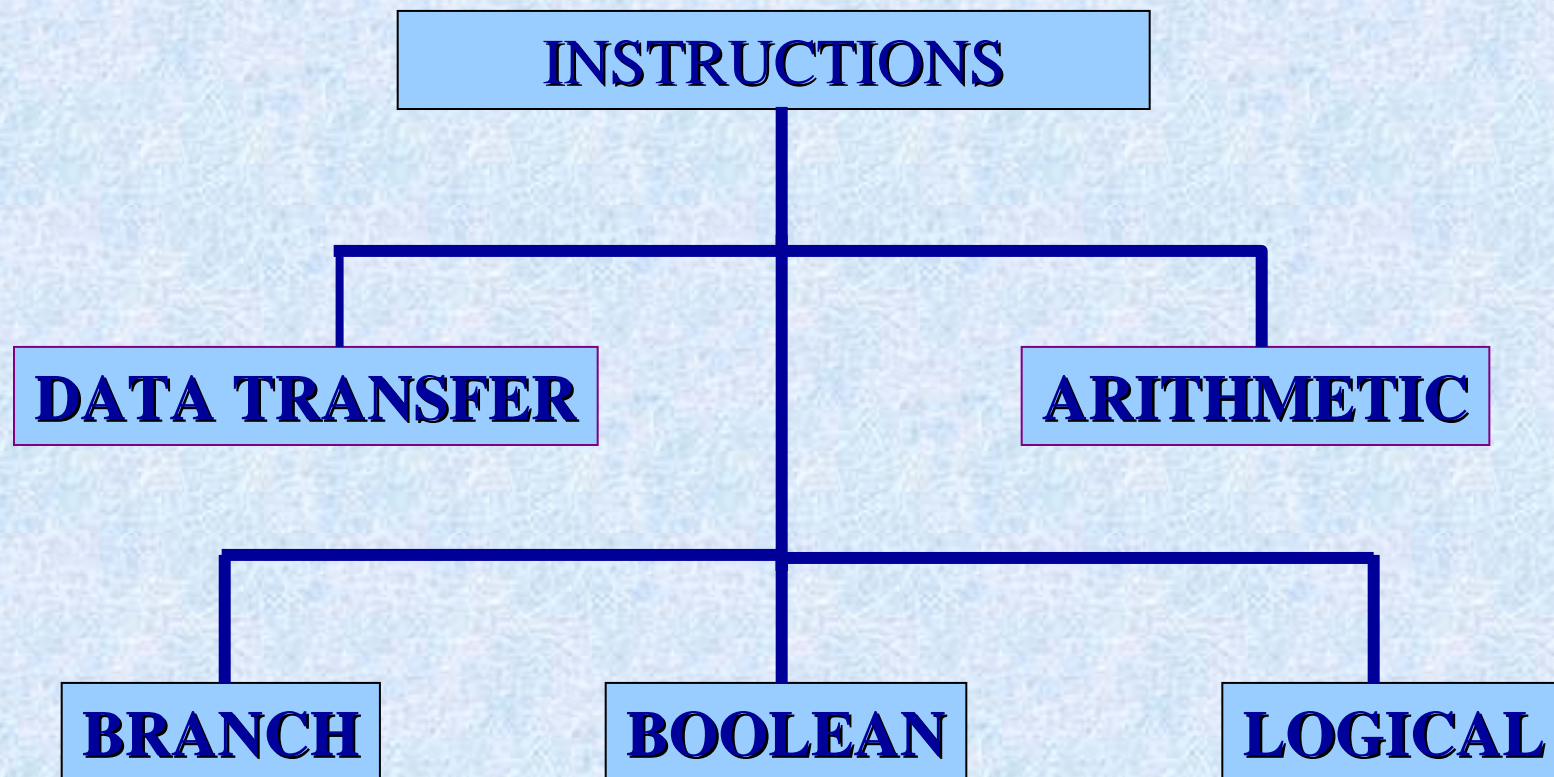


Classification of Instructions



Data transfer Instructions

- Mov A, Rn
- Mov A, Direct
- Mov A, @Ri
- Mov A, #Data₈
- Mov Dptr, #Data₁₆

Data transfer Instructions contd.

- Mov Rn, A
- Mov Rn, Direct
- Mov Rn, #Data₈
- Mov Direct, A
- Mov Direct, Rn
- Mov Direct, #Data₈
- Mov Direct, Direct

Data Transfer Instructions contd.

- Mov Direct, @Ri
- Mov Direct, # Data₈
- Mov @Ri, A
- Mov @Ri, Direct
- Mov @Ri, #Data₈

Data transfer Instructions contd.

- Movx A, @Ri
- Movx A, @Dptr
- Movx @Ri, A
- Movx @dptr, A
- Movc A, @A+Dptr
- Movc A, @A+Pc

Data transfer Instructions contd.

- Push Direct
- Pop Direct
- Xch A, Rn
- Xch A, Direct
- Xch A, @Ri
- Xchd A, @Ri

Boolean Instructions

- Clr C
- Clr Bit
- Setb C
- Setb Bit
- Cpl C
- Cpl Bit

Boolean Instructions contd.

- Anl C, Bit
- Anl C, /Bit
- Orl C, Bit
- Orl C, /Bit
- Mov C, Bit
- Mov Bit, C

Branch Instructions contd.

- Jc Reladdr
- Jnc Reladdr
- Jb Bit, Reladdr
- Jnb Bit, Reladdr
- Jbc Bit, Reladdr

Arithmetic Instructions

- Add A, Rn
- Add A, Direct
- Add A, @Ri
- Add A, #Data₈

Arithmetic Instructions contd.

- Addc A, Rn
- Addc A, Direct
- Addc A, @Ri
- Addc A, #Data₈

Arithmetic Instructions contd.

- Subb A, Rn
- Subb A, Direct
- Subb A, @Ri
- Subb A, #Data₈

Arithmetic Instructions contd.

- Inc A
- Inc Rn
- Inc Direct
- Inc @Ri
- Inc Dptr

Arithmetic Instructions contd.

- Dec A
- Dec Rn
- Dec Direct
- Dec @Ri

Arithmetic Instructions contd.

- Mul AB
- Div AB
- DA A

Logical Instructions

- Anl A, Rn
- Anl A, Direct
- Anl A, @Ri
- Anl A, #Data₈
- Anl Direct, A
- Anl Direct, #Data₈

Logical Instructions contd.

- Orl A, Rn
- Orl A, Direct
- Orl A, @Ri
- Orl A, #Data₈
- Orl Direct, A
- Orl Direct, #Data₈

Logical Instructions contd.

- Xrl A, Rn
- Xrl A, Direct
- Xrl A, @Ri
- Xrl A, #Data₈
- Xrl Direct, A
- Xrl Direct, #Data₈

Logical Instructions contd.

- Clr A
- Cpl A
- Rl A
- Rlc A
- Rr A
- Rrc A
- Swap A

Branch Instructions

- Acall Addr11
- Lcall Addr16
- Ret
- Reti
- Ajmp Addr11
- Ljmp Addr16
- Sjmp Reladdr

Branch Instructions

- `Jmp @A+Dptr`
- `Jz Reladdr`
- `Jnz Reladdr`

Branch Instructions contd

- Cjne Rn, #Data, Reladdr
- Cjne @Ri, #Data, Reladdr
- Cjne A, #Data, Reladdr
- Cjne A, Direct, Reladdr

Branch Instructions contd

- Djnz Rn, Reladdr
- Djnz Direct, Reladdr
- Nop

Assembly directives

- Directives:
 - ?FILE Directive
 - ?LINE Directive
 - ?SYMB Directive
 - BSEG Directive
 - CODE Directive
 - CSEG Directive
 - DATA Directive
 - DB Directive
 - DBIT Directive

Assembly directives

DS Directive

DSEG Directive

DW Directive

END Directive

EQU Directive

EXTRN Directive

IDATA Directive

ISEG Directive

Assembly directives

NAME Directive

ORG Directive

PUBLIC Directive

RSEG Directive

SEGMENT Directive

SET Directive

USING Directive

XDATA Directive

XSEG Directive