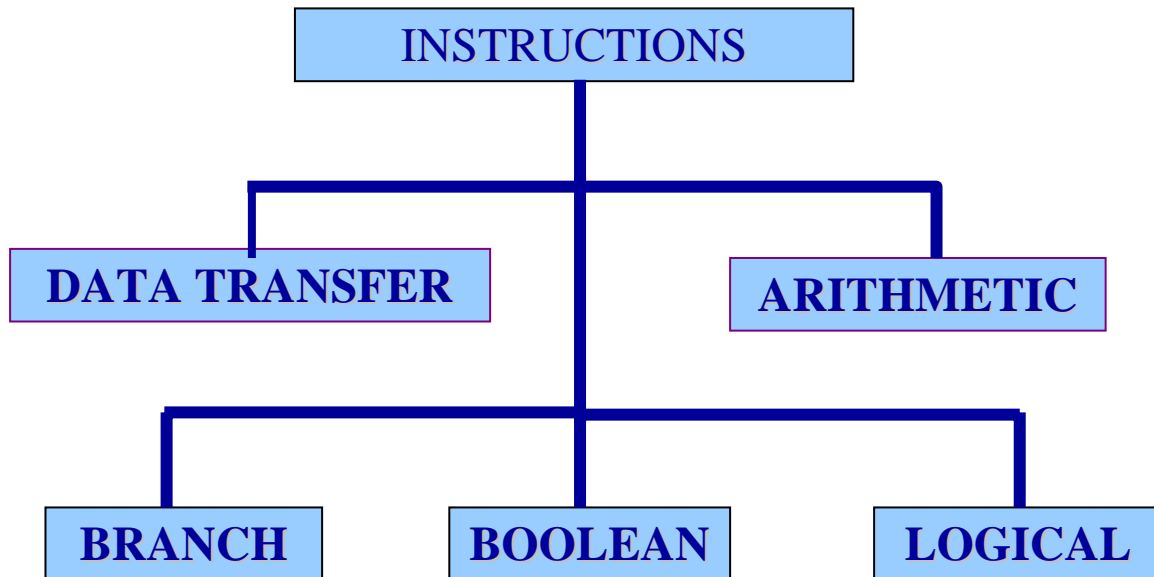


## Classification of Instructions



### Data transfer Instructions

- Mov A, Rn
- Mov A, Direct
- Mov A, @Ri
- Mov A, #Data8
- Mov Dptr, #Data16
- Mov Rn, A
- Mov Rn, Direct
- Mov Rn, #Data8
- Mov Direct, A
- Mov Direct, Rn
- Mov Direct, #Data8
- Mov Direct, Direct
- Mov Direct, @Ri
- Mov Direct, # Data8
- Mov @Ri, A
- Mov @Ri, Direct
- Mov @Ri, #Data8
- Movx A, @Ri
- Movx A, @Dptr
- Movx @Ri, A
- Movx @dptr, A
- Movc A, @A+Dptr
- Movc A, @A+Pc
- 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
- Anl C, Bit
- Anl C, /Bit
- Orl C, Bit
- Orl C, /Bit
- Mov C, Bit
- Mov Bit, C

### Branch Instructions

- 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
- Addc A, Rn
- Addc A, Direct
- Addc A, @Ri
- Addc A, #Data8
- Subb A, Rn
- Subb A, Direct
- Subb A, @Ri
- Subb A, #Data8
- Inc A
- Inc Rn
- Inc Direct
- Inc @Ri
- Inc Dptr
- Dec A
- Dec Rn
- Dec Direct
- Dec @Ri
- 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
- Orl A, Rn
- Orl A, Direct
- Orl A, @Ri
- Orl A, #Data8
- Orl Direct, A
- Orl Direct, #Data8
- Xrl A, Rn
- Xrl A, Direct
- Xrl A, @Ri
- Xrl A, #Data8
- Xrl Direct, A
- Xrl Direct, #Data8
- 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
- Jmp @A+Dptr
- Jz Reladdr
- Jnz Reladdr
- Cjne Rn, #Data, Reladdr
- Cjne @Ri, #Data, Reladdr
- Cjne A, #Data, Reladdr
- Cjne A, Direct, Reladdr
- 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  
DS Directive  
DSEG Directive  
DW Directive  
END Directive  
EQU Directive  
EXTRN Directive  
IDATA Directive  
ISEG Directive  
NAME Directive  
ORG Directive  
PUBLIC Directive  
RSEG Directive  
SEGMENT Directive  
SET Directive  
USING Directive  
XDATA Directive  
XSEG Directive