

Mini elevator system with 5 floors

```
ORG 0000H
MOV SP, #60H
MOV P0, #00H
MOV P2, #00H
MAIN:
    MOV A, P1
    JB ACC.0, FLOOR1
    JB ACC.1, FLOOR2
    JB ACC.2, FLOOR3
    JB ACC.3, FLOOR4
    JB ACC.4, FLOOR5
    SJMP MAIN
```

```
FLOOR1:
    MOV P0, #06H
    ACALL UP
    SJMP MAIN
```

```
FLOOR2:
    MOV P0, #5BH
    ACALL UP
    SJMP MAIN
```

```
FLOOR3:
    MOV P0, #4FH
    ACALL UP
    SJMP MAIN
```

```
FLOOR4:
    MOV P0, #66H
    ACALL DOWN
    SJMP MAIN
```

```
FLOOR5:
    MOV P0, #6DH
    ACALL DOWN
    SJMP MAIN
```

```
UP:
```

```
SETB P2.0
CLR P2.1
ACALL DELAY
CLR P2.0
CLR P2.1
RET
```

DOWN:

```
CLR P2.0
SETB P2.1
ACALL DELAY
CLR P2.0
CLR P2.1
RET
```

DELAY:

```
MOV R2, #20
D1: MOV R1, #255
D2: DJNZ R1, D2
    DJNZ R2, D1
RET
```

END