



```
1          ORG 0000H
2          LJMP MAIN
3          ORG 0100H
4  MAIN:    MOV A, #13H
5          CJNE A, #16,NEXT
6          MOV DPTR,#TABLE2
7          MOV A, #0
8          MOVC A,@A+DPTR
9          MOV R6,A
10         MOV A, #01H
11         MOVC A,@A+DPTR
12         MOV R7,A
13         SJMP $
14
15  NEXT:    JC SMALL
16         MOV DPTR,#TABLE2
17         SUBB A, #10H
18         MOV B,#02H
19         MUL AB
20         MOV R1,A
21         MOVC A,@A+DPTR
22         MOV R6,A
23         MOV A,R1
24         INC A
```

```
25          MOVC A,@A+DPTR
26          MOV R7,A
27          SJMP $
28  SMALL:   MOV DPTR,#TABLE1
29          MOV R6,0
30          DEC A
31          MOVC A, @A+DPTR
32          MOV R7,A
33          SJMP $
34          ORG 0150H
35  TABLE1: DB 01,04,09,16,25,36,49,64,81,100,121,144,169,196,225
36          ORG 0160H
37  TABLE2: DW 256,289,324,361,400
38          END
39
```