

```
1.  MOV R0,#20H
    MOV R7,#10H
    MOV A,#00
XX: ADD A,@R0
    INC R0
    DJNZ R7,XX
    MOV @R0,A
    RET

2.  MOV DPTR,#1000H
    MOV R7,#10H
    MOV 20H,#00
WW: MOVX A,@DPTR
    ADD A,20H
    MOV 20H,A
    INC DPTR
    DJNZ R7,WW
    MOV DPTR,#2000H
    MOVX @DPTR,A
    RET

3.  MOV R7,#50H
    MOV DPTR,#500H
    MOV R0,#20H
ZZ: MOVX A,@DPTR
    MOV 70H,@R0
    MOV @R0,A
    MOV A,70H
    MOV @DPTR,A
    INC R0
    INC DPTR
    DJNZ R7,ZZ
    RET

4.  MOV R0,#30H
    MOV R7,#10H
SS: MOV A,@R0
    ANL A,#0FH
    MOV @R0,A
    INC R0
    DJNZ R7,SS
    RET

5.  MOV DPTR,#300H
    MOV R7,#50H
EE: MOVX A,@DPTR
    SWAP A
    MOVX @DPTR,A
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    INC DPTR
    DJNZ R7,EE
    RET

6.  MOV DPTR,#3000H
    MOV 40H,#00
    MOV R7,#20H
POS:MOVX A,@DPTR
    RL  A
    JC  D1
    INC 40H
D1:  INC DPTR
    DJNZ R7,POS
    RET

7.  MOV R0,#30H
    MOV R7,#10H
CM: MOV A,@R0
    CPL A
    ADD A,#1
    DJNZ R7,CM
    RET

8.  MOV DPTR,#400H
    MOV 20H,#00
    MOV R7,#10H
BC: MOVX A,@DPTR
    ADD A,20H
    DA  A
    MOV 20H,A
    INC DPTR
    DJNZ R7,BC
    MOV DPTR,#500H
    MOV @DPTR,A
    RET

9.  MOV R0,#40H
    MOV R7,#20H
    MOV R1,#00
X1: MOVX A,@R0
    CJNE A,#2EH,X2
    INC R1
X2: INC R0
    DJNZ R7,X1
    MOV R0,#70H
    MOV A,R1
    MOVX @R0,A
    RET

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10.SQ: JNB  P1.0,$
      MOV  R7,#250
      SETB P1.1
      DJNZ R7,$
      CLR  P1.1
      MOV  R7,#250
      DJNZ R7,$
      SJMP SQ
      RET

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11.   JNB  P1.0, SOF
      MOV  C,P1.2
      ANL  C,P1.3
      ORL  C,P1.1
      MOV  P1.4,C
      RET
SOF:  SETB P1.4
      RET

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12.   MOV  A,P1
      MOV  20H,#00
R1:   RL
      JNC  R2
      INC  20H
R2:   DJNZ R7,R1
      RET

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13.   MOV  A,P1
      CLR  P1.0
      MOV  C,P1.1
      XRL  C,P1.2
      JC   PU_2
      MOV  R7,#50
      SETB P1.0
      DJNZ R7,$
      CLR  P1.0
      RET
PU_2: MOV  R7,#100
      SETB P1.0
      DJNZ R7,$
      CLR  P1.0
      RET

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14.   JB   P2.0,HI
      MOV  P1,#0F0H
      RET
HI:   MOV  P1,#0FH
      RET

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15.   MOV  A,P0
      MOV  R7,#8
      MOV  20H,#00
      XX:  RL  A
          JC  DALEG
          INC 20H
DALEG: DJNZ R7,XX
      MOV  A,#01
XX2:   MOV  P1,A
      DJNZ 20H,XX1
      RET
XX1:   RL  A
      ADD  A,#01
      SJMP XX2

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