

LDA #7E

Q5

INCA

Q6

JMP 22

Q5

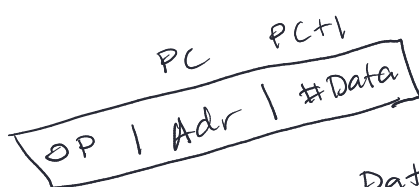
FO
03
08
E1
10
24
FA
33
22

—

—

38
10
24
F9
21
FA

23=38
24=10
25=24
26=F9
27=21
28=FA



1. $Adr \rightarrow TA; PC++$
2. $Data \rightarrow M(TA); PC++$

$Data \rightarrow M(Adr)$

Q4 ($Q_4 \cdot I_{DF}$) $M(PC) \rightarrow TA; PC+1 \rightarrow PC, LD_{TA}; INC_{PC}; MR,$
 Q5 ($Q_5 \cdot I_{DF}$) $M(PC) \rightarrow R; PC+1 \rightarrow PC, LD_R; INC_{PC}; MR; f3; f0,$
 Q6 ($Q_6 \cdot I_{DF}$) $R \rightarrow M(TA) \quad OE_R; g_{14}; MW, NF$

05
07
EF
20
02
21
21

20

05
07
EF
20
02
21
21

20

Op | Adr | Data

| | | | |
|----|---------------|--|---|
| Q4 | $(Q4.I_{EF})$ | $M(PC) \xrightarrow{M(Addr)} R; PC+1 \rightarrow PC,$ | $LD_R; INC_{PC}; f_3; f_0; MR,$ |
| Q5 | $(Q5.I_{EF})$ | $M(PC) \xrightarrow{(\#Data)} T; PC+1 \rightarrow PC,$ | $MR; LD_T; INC_{PC},$ |
| Q6 | $(Q6.I_{EF})$ | $A-T; ALU(Z) \rightarrow CC$ | $f_3; f_2; OE_A; g_0; LD_{CC};$ $g_1; g_8; g_5; g_4; g_3; g_2$ |
| Q7 | $(Q7.I_{EF})$ | $if (Z=1)$ $M(R) \rightarrow PC$ | $(OE_R; LD_{SP}) \cdot Z$ |

