**QUES 13**

AR<-PC

IR<-M[AR]

PC<-PC+1

AR<-IR(0-11)

IF IR(13-15)=7

IF IR(12)=0

AR<-M[AR]

DECODE IR

|  |  |  |
| --- | --- | --- |
| REGISTERS | INITIAL STATE | FINAL STATE |
| AC | 0006 | 0028 |
| PC | 022 | 023 |
| AR | 000 | 082 |
| IR | 0000 | 2082 |
| DR | 0000 | 0022 |

|  |  |
| --- | --- |
| ADDR | DATA |
| 022 | 2082 |
| 082 | 0022 |
|  |  |