Programmazione in assembly semplificato

P1:

1. READ 1
2. READ 2
3. LOAD R1
4. SUB 2
5. JGTZ 8
6. WRITE 1
7. JUMP 9
8. WRITE 2
9. HALT

P2:

1. READ 1
2. LOAD 1
3. JZERO 20
4. JGTZ 6
5. JUMP 1
6. READ 2
7. SUB = 1
8. JZERO 19
9. STORE 1
10. READ 3
11. LOAD 3
12. SUB 2
13. JGTZ 16
14. LOAD 3
15. STORE 2
16. LOAD 1
17. SUB = 1
18. JGTZ 9
19. WRITE 2
20. HALT

P3:

1. READ 1
2. LOAD 1
3. JZERO 24
4. JGTZ 6
5. JUMP 1
6. STORE 1
7. READ *R
8. SUB = 1
9. JZERO 14
10. JUMP 7
11. LOAD 1
12. SUB = 1
13. STORE 1
14. LOAD *R
15. SUB *R+1
16. JGTZ 19
17. JZERO 21
18. JUMP 21
19. LOAD *R+1
20. STORE *R
21. LOAD 1
22. JGTZ 14
23. WRITE *R
24. HALT

Circuiti Combinatori

E1:

i1	i2	i3	a	b	c	d	e	f	g
0	0	0	1	1	1	1	1	1	0
0	0	1	0	1	1	0	0	0	0
0	1	0	1	1	0	1	1	0	1
0	1	1	1	1	1	1	0	0	1
1	0	0	0	1	1	0	0	1	1
1	0	1	1	0	1	1	0	1	1
1	1	0	1	1	1	1	1	0	1
1	1	1	1	1	1	0	0	0	0