

Esercizio 1

Tabella di verità:

Input(decimale)	A	B	C	LED1	LED2	LED3	LED4	LED5
0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	1	0	0
2	0	1	0	0	1	0	1	0
3	0	1	1	0	1	1	1	0
4	1	0	0	1	1	0	1	1
5	1	0	1	1	1	1	1	1
6	1	1	0	x	x	x	x	x
7	1	1	1	x	x	x	x	x

LED1:

C\AB	00	01	11	10
0	0	0	0	1
1	0	0	0	1

$$1 = AB^{\overline{}}$$

LED2:

C\AB	00	01	11	10
0	0	1	x	1
1	0	1	x	1

$$2 = A + \overline{A}B$$

LED3:

C\AB	00	01	11	10
0	0	0	x	0
1	1	1	x	1

$$3 = C$$

LED4:

C\AB	00	01	11	10
0	0	1	x	1
1	0	1	x	1

4 = $\bar{A}B + A$ LED5:

C\AB	00	01	11	10
0	0	0	x	1
1	0	0	x	1

5 = AB