

Q1

$$2^{n-1} \geq 62$$

$$n \geq 7$$

$$7 \text{ bit} = K$$

$$2^{n-1} > 57$$

$$n \geq 7$$

$$V = A - B = -62 - 57 = -119 = 10001001_{c2}$$

$$62_{10} = 0111110_{c2}$$

$$-62_{10} = 1000010_{c2}$$

$$57_{10} = 0111001_{c2}$$

$$\begin{array}{r} 1000010 \\ + \\ 1001111 \\ \hline R = 0001101 \end{array}$$

RIPORTO SI
OVERFLOW SI

V-R

$$\begin{array}{r} 10001001 \\ + \\ 1110011 \\ \hline 0001100 \end{array}$$

V-R != 0 IN QUANTO NEL CALCOLARE R SI È VERIFICATO OVERFLOW.

n	1	2	3	4	5	6	7	8	9
2 ⁿ⁻¹	1	2	4	8	16	32	64	128	256

62	2	0	57	2	1
31	2	1	28	2	0
15	2	1	14	2	0
7	2	1	7	2	1
3	2	1	3	2	1
1	2	1	1	2	1
0			0		

119	2	1
59	2	1
29	2	1
14	2	0
7	2	1
3	2	1
1	2	1
0		