Q1

$52_{16} = 5 \cdot 16_{10} + 2_{10} = 82_{10}$

n	1	2	3	4	5	6	7	8
2^{n-1}	0	2	4	8	16	32	64	128

$2^{n-1} > 82_{10}$ $\quad n \geq 8$

$2^{n-1} \geq 53_{10}$ $\quad n \geq 7$

$52_{16} = 0101\ 0010_2 = 0\ 0101\ 0010_{c2} = 01010010_{c2}$ 8 bit

$53_{10} = 1\ 1\ 0\ 1\ 0\ 1_2 = 0110101_{c2}$ 7 bit

$-53_{10} = 1001010 + 1 = 1001011_{c2}$

$= 11001011_{c2}$ 8 bit

53	2	1 ↑
26	2	0
13	2	1
6	2	0
3	2	1
1	2	1
0		

```
 1 1 0 1 0 0 1 0  +     RIPORTO SI
 1 1 0 0 1 0 1 1  =     OVERFLOW NO
-----------------
 0 0 0 1 1 1 0 1

 0 1 0 1 0 0 1 0  +     RIPORTO NO
 0 0 1 1 0 1 0 1  =     OVERFLOW SI
-----------------
 1 0 0 0 0 1 1 1
```