



↑
sign

0 - positive
1 - negative

7
-7

0 1 1 1 → +7

0	0 0 0	→ +0	}
①	0 0 0	→ -0	
	0 0 1	→ -1	
1	1 1 1	→ -7	

15 possible numbers

-8
-7
-1

16 possible numbers

$$[-2^{n-1}, 2^{n-1}-1]$$

2's complement representation

0 0 1 flip bits and add 1

0	0	1
1	1	0
1	1	1

→ 2's comp rep of 001

0 0 0 → 1 0 0 0

1	1	1	
+ 1			
1	0	0	0

↑ 3 2 1 0