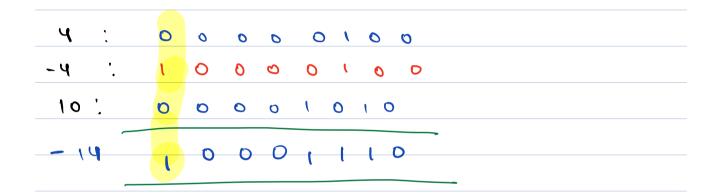
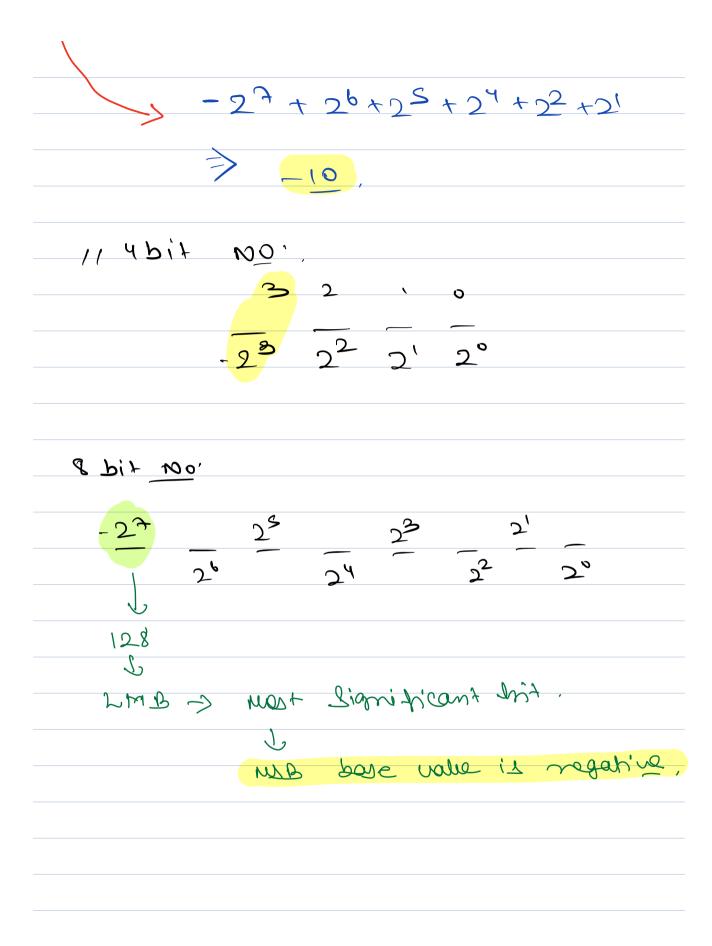
To day's	Con	ten t	•			
7						0.1
	4) ha	0.	- 00	mo' <u>'</u> 's		SPOWED
	8)	Sign	ufican c	e of	MRY	6
	<i>c</i> )	dut	ulype	lange	•	





3's comprement :a = -a = 2's complement of a cin binary) -> 1's comp a +1 2-10= 1/2 of 10+1 & bit mois. 0) 0 0 0 0 0 0 0 ~10:11:000 41 00000001 -10 => 1110110 -g7 26 25 24 28 2<sup>2</sup> 21 2° 1110110 97+26+25+24+22+21



-2<sup>7</sup> 2<sup>6</sup> 2<sup>5</sup> 2<sup>4</sup> 2<sup>3</sup> 2<sup>2</sup> 2<sup>1</sup> 2<sup>6</sup>
10: 0 0 0 0 1 0 10
-4: 1 1 1 1 0 0

Convert Binary to decimal: 4 bit NO -23 g2 21 2° 1011 -> -5 1010 -> -6  $0011 \rightarrow 8$   $1000 \rightarrow -8$ 1 ( 1 ( -> -1 8 bit Nowbears: Decimal 100101010 10010001 >-111 00010001 -> 17 - no bit no uber!  $-g^{m-1}$ ,  $g^3$   $g^2$   $g^3$   $g^9$ <u>V</u> More Neg -> 1 0 0 0 0 0 0 0 --- - -> - 2m-1 Max les 3 0 1 1 1 1 1 - - - - 1

will MLB Base	value be always -ue?
u ma ha ana al	Signed
Declare unsigned 4 hit	Declare signed 4 bit
2 <sup>3</sup> 2 <sup>2</sup> 2' 2°	-2 <sup>3</sup> 2 <sup>2</sup> 2' 2°
Declare unsigned P	Declaue Signed 8 bis.
97 26 2 <sup>5</sup> 24 23 2 <sup>2</sup> 21 26	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
How will	(bongis wond met syd
benginus  18 fm benginu  18 grab benginu  whighed shows	Default  By default they  int or one right:  long or Bore value of  should or MAB bit is one.
Some value of MIBis + us  we can't stone -us  musley.	In Juna: There is no such that as unrighed, There are only tigned data types,

## Bro eale: 10:05 > 10:15 pm.



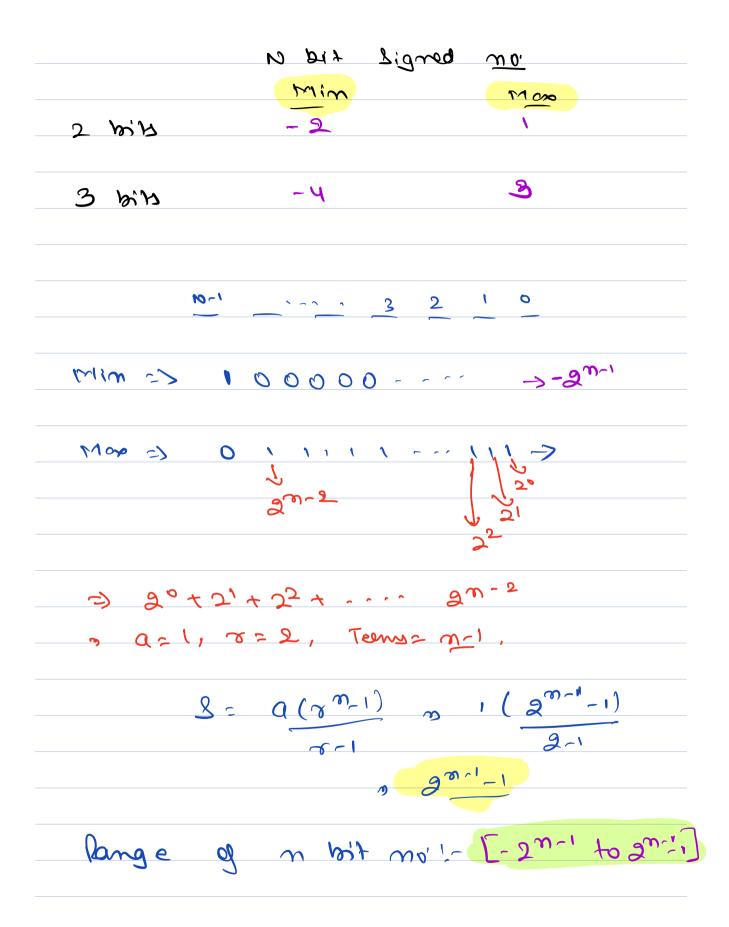
Ranges in signed Datalypes.
2 bit Signed no.
$-2'$ 2° Decimal $\rightarrow$ [-2 1]
$\frac{-2!}{0} \frac{2^{\circ}}{0} 2^{\circ$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-> -1
con me store -s on 10 in
a 2 5/2 mg [po]
3 bit Signed no.
-92 91 2° Decimal Min Moso
$\frac{-3^2 3^3 3^2}{0 0 0 = 0}$ Declared Min Moss
0 0 1 = 1
0 1 0 = 2
0 1 1 = 3
1 0 0 = ~ Y
(0) = -3
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

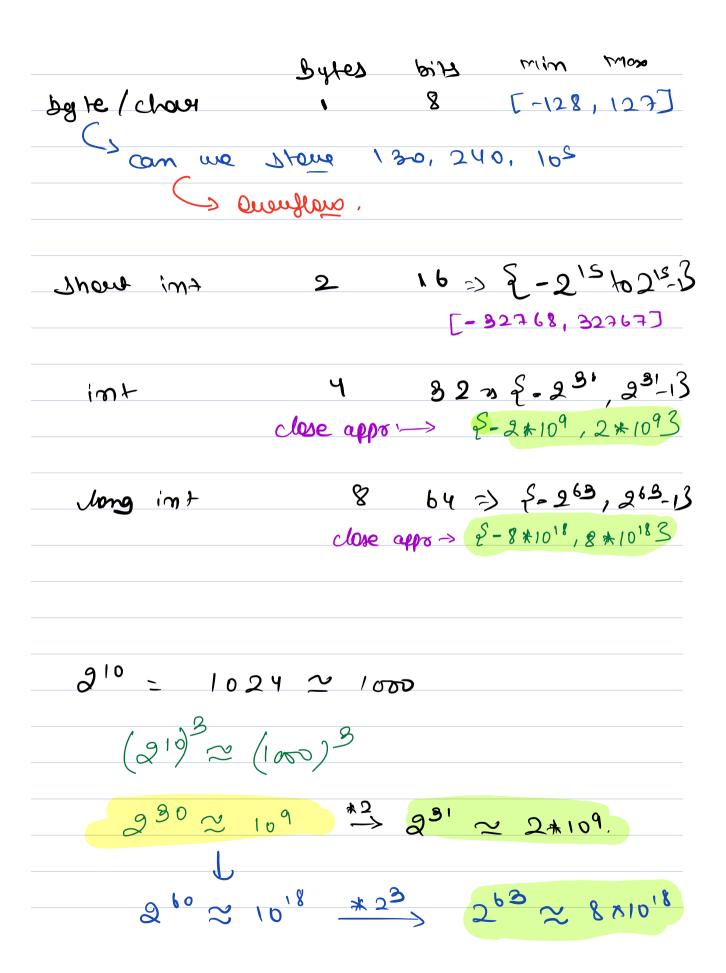
= -1

(

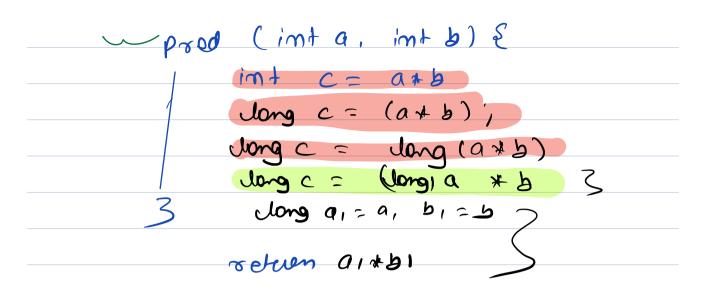
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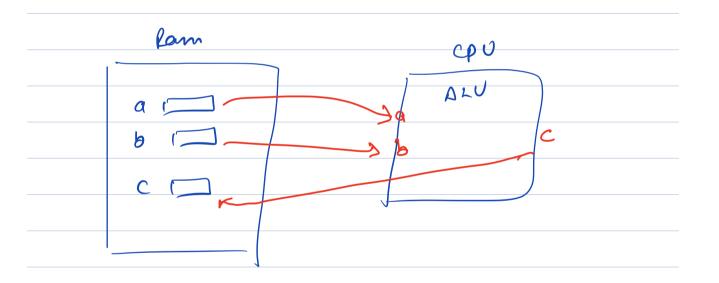
1





Impoulance of Constacin	<u> </u>
01) hiven an avoiay,	· calculate sum g 17.
^	return sum '
constraints	
1 < 2 a, b < 2 106	Voca .

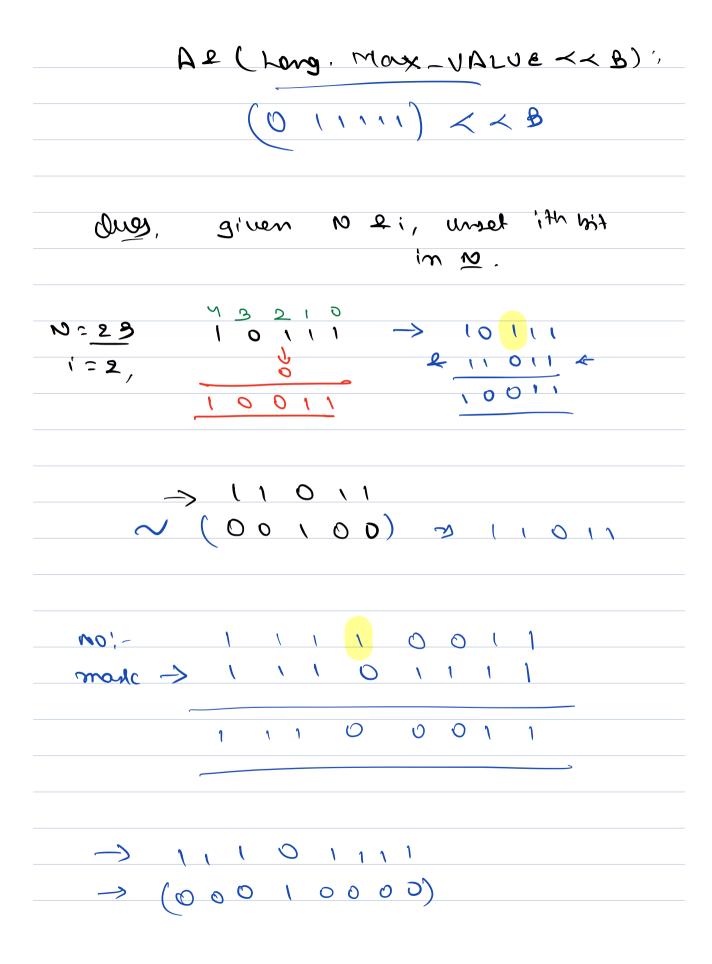




Take come !-

- -> when we multiply int \* int.

  -> when we multiply long \* long.



Ques alven or it set or continuous bit & y und bit. 71=8, y-2:- 11100 -> 28 111 < 22 m=5, y=3, 11111 000 11111449 11111/44  $\Rightarrow (00)$   $\Rightarrow (1) \rightarrow 3$ 3  $iiii \rightarrow is$ → 10000 → 1P (1<<4) (1<<4)

	76543210	
$\rightarrow$	1 1 0 0 0 1 1 1 3 8 mit	
	9	