## Unique Number 11



Approach: -

1. First we do xor of all the numbers through which the XOR all the repeated numbers become zero and the remaining value will be the nor of remaining two numbers.

- 2. Now the problem anises how to get the two numbers from its xor.
  - 3. We will find the rightmost set bit Sapply AND operation with are elements & drivide the elements

into two parts:

- one which give o with the & operation & the other which doesn't. The answer will never be one he same side.

4. Then it do nor operation of the two parts

I can see that I get the two numbers from

two parts.

	- /
4 100 1	001 > 0
100	
Two Bet &	
Equal to 0	Notequal to 0.
2	1
2	3
4	1
	1/3/1=3
2-2-4=4	1010
if (4>3) i numb. push-back(3); numb. push-back(4); i numb. push-back(4); i	
numa, pugh-back (1)	
-1 5	
numa.push-back (4) numa.push-back (3) }	
scetusin an nome,	
Note: Convert this numbered	
to variable & polve.	
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Note: - To find LSB of a number, use the formala: 
LSB = n & -n

C 2's complement of a number

class Solutions

public:

vector lint > single Num (vector lint > Lan) &

pusue. vector (int > single Num (vector (int > Lan) & int x=0; for (inti:arr) x = x^i; int Isb= x&-x; vector < int > ans(2); int a=0, b=0; for (inti: arr) if (i& Isb) { a = a i; } else (b=b^i; y ans [0] = min(a, b);ans (1) = max (a, b); return ans; 33; T.c.O(n) S-(10(1)