

int $\rightarrow -2^{31}$ to $2^{31}-1$

Integer.MIN-VALUE

int a[] = { 1, 5, 4, 7, 9 }

new int [5];

Ques $n \Rightarrow 6$

arr 1, 4, 6, 3, 2 $\Rightarrow 5$

① Bitwise \wedge

$$1 \wedge 1 \Rightarrow 0$$

$$0 \wedge 0 \Rightarrow 0$$

$$1 \wedge 0 \Rightarrow 1$$

$$0 \wedge 1 \Rightarrow 1$$

$$\begin{array}{r} 1001 \\ 1001 \\ \hline 0000 \Rightarrow 0 \end{array}$$

$$21 \wedge 21 \Rightarrow 0$$

$$a = 0 \wedge 1 \wedge 2 \wedge 3 \wedge 4 \wedge 5 \wedge 6$$
$$\wedge 1 \wedge 4 \wedge 6 \wedge 3 \wedge 2$$

for (int i = 1; i <= n; i++) {

$$a = a \wedge i;$$

}

② 1 - n only 1 number is missing

$$1 \rightarrow n \Rightarrow \frac{n * (n + 1)}{2}$$

$$n \Rightarrow 6 \Rightarrow \text{Sum1} \Rightarrow \frac{6 \times 7}{2} \Rightarrow 21$$

arr 1, 4, 6, 3, 2

$$\text{Sum2} \Rightarrow 16$$

$$21 - 16 \Rightarrow 5$$

```
int s1 = (n * (n + 1)) / 2;
```

```
int s2 = 0;
```

```
for (i = 0; i < a.length; i++) {
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```
    s2 += a[i];
```

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}
```

```
return (s1 - s2);
```

Ques

Subarray

→ Continuous parts of array

1	2	3	4	5
1 2	2 3	3 4	4 5	
1 2 3	2 3 4	3 4 5		
1 2 3 4	2 3 4 5			
1 2 3 4 5				

$$n + (n-1) + (n-2) \dots \dots \dots 3 + 2 + 1$$

$$\Rightarrow 1 + 2 + \dots \dots n$$

$$\Rightarrow \frac{n \times (n+1)}{2}$$

2 4 4 5 3 6 7 9 1

i = 0 ~~true~~ ^{true} ~~false~~

Last Odd = ~~false~~

Count = ~~0~~ ~~1~~ ~~2~~ ~~0~~ ~~1~~ ~~2~~ 3

① is last odd

$$\text{total} = 3 + 6 \Rightarrow 9$$

② curr is odd
increase count

curr

0 2 4 1

last

① curr \rightarrow odd last \rightarrow even \rightarrow Start

start my new sequence \Rightarrow count = 1

last odd = true

0 2 4 1 7

↑

②

curr → odd last → odd → Continue

count curr number in seq → count++,

0 2 4 1 7 6

↑

③ last → odd curr → even

→ calculate result

last odd → false

→ end