

Ques

0	1	2	3	4	5	6	7
2	1	7	8	5	4	1	6

Sum of array $\Rightarrow 34$

```
int sum = 0;
for (int i = 0; i < arr.length; i++) {
```

sum += arr[i];

}

return sum;

Sum	i
0	0
1	1
8	2
10	

Ques Max of array

5	7	1	6	2	4
---	---	---	---	---	---

 $\Rightarrow 7$

int max = $-\infty$

```
for (int i = 0; i < arr.length; i++) {
```

```
    if (arr[i] > max) {
```

```
        max = arr[i];
```

```
    }
```

max = ~~5~~ ~~7~~

Ques Min

Ques Span of array \Rightarrow diff b/w max and min element

7	-1	1	-4	-3	-10	-2
---	----	---	----	----	-----	----

$\Rightarrow 9$

$10 - (-1)$
 $\Rightarrow 11$

$-1 - (-10)$

$-1 + 10 \Rightarrow 9$

Ques Sum of elements at odd indexes

0	1	2	3	4	5
5	2	4	8	1	9

$\Rightarrow 19$

```
for(int i=0; i<arr.length; i++) {
```

```
    if(i%2 == 1)
        sum += arr[i];
```

}

```
for(i=1; i<arr.length; i+=2)
```

```
    sum += arr[i]
```

```
}
```

Ques Sum of element at even index

Ques check if element is repeated

1 | 5 | 4 | 2 | 5 | 1 | 7

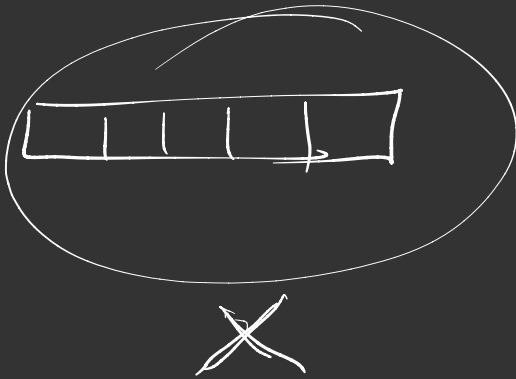
$n = 5$

count = 0 / X 2

Ques Reverse array

1 | 2 | 4 | 7 | 9 | 3

⇒ 3 | 9 | 7 | 4 | 2 | 1



1 | 3 | 2 | 4 | 7 | 9 | 2 | 3 | 1
0 1 2 3 4 5

↑ ↑
l r

1 | 5 | 2 | 3 | 4 | 5
0 1 2 3 4

↑ ↑
l r

int a = 10;

int b = 20;

int t = a;

a = b;

b = t;

a = ~~10~~²⁰
b = ~~20~~¹⁰
t = 10

$a = a + b;$

$b = a - b;$

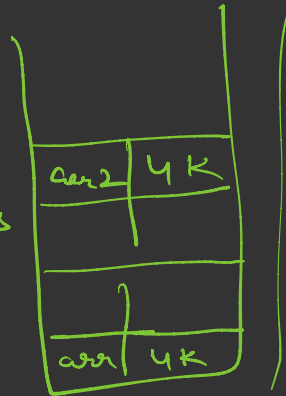
$a = a - b;$

int arr = {1, 2, 3, 4}

reverse(arr)

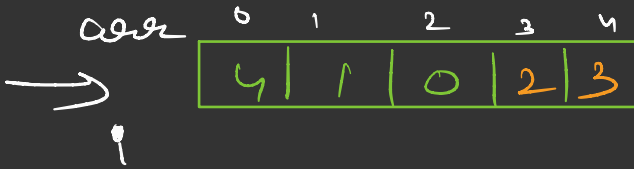
reverse

main



stack

Ques Inverse of Array $0 \leq val < 2$



no repetition



for(int i=0; i < arr.length; i++)
arr[arr[i]] = i

Ques k sum pair

k = 10



2	1	9	8	5	4
---	---	---	---	---	---



2, 8
1, 9



2 1	1 9	9 8	8 5	5 4
2 9	1 8	9 5	8 4	
2 8	1 5	9 4		
2 5	1 4			
2 4				



9

① Sort Array

1	2	4	5	8	9
---	---	---	---	---	---

1, 8

4, 5



2



2