# **Assignment 3**

Topic:-Array

**Prerequisite :- Array and Math** 

Tutorial:-

https://www.geeksforgeeks.org/array-data-structure/

https://guide.freecodecamp.org/

https://www.hackerearth.com/practice/data-structures/arrays/1-d/tutorial/

Q 1 Given an array of N integers, return the element which frequency are maximum.In cases, where frequencies are equal, you can print any element.

### Input format:-

- n denoting size of an array.
- Array of integers of size n.

### Output format:-

Single integer which frequency is maximum.

Constraint:-

1<N<10^6 1<A[i]<10^9

Example:

Input:

[2,1,3,1,2,2,3,2,6,2,9]

Output:

2

Input:-

[1,1,1,1,4,4,4,4,3,3]

Output:-

1

Q.2 Given an array of size N	Divide the array into two	halves and	calculate th	e sum of
both the halves and print the	sum having minimum va	lue.		

In	put	:
	P 41 1	

- n denoting size of an array(assume it to be even value).
- Array of integers of size n.

### Output:

- The value of minimum sum

#### Constraint:-

```
1<N<10^6
1<A[i]<10^9 .
```

# **Sample Test Case 1:**

Input:

6

271345

Output:

10

# **Sample Test Case 2:**

Input:

4

98710

Output:

17

Note :- N always be even.