

Aim:**Question description:**

Simon is studying B.Tech-Mechanical Engineering. He's going to attend a computer science-based subject exam this semester. Due to the less preparation in the previous monthly tests, his internal marks are decreased. His computer science Professor made an offer one more chance to boost up his internal marks.

Professor assigns a program to Simon for the internal mark boost up. So Simon wants to identify the element of the array which occurs most time in the array. Can you help him?

Function Description:**Sample Input:**

```
9
1 2 1 2 1 4 5 1 2
```

Sample Output:

```
1
```

Explanation:

- 1 occurs 4 times
- 2 occurs 3 times
- 4 occurs 1 time
- 5 occurs 1 time

So, the output is 1.

Constraints:

- $0 < n < 100$
- $0 < arr < 1000$

Input Format:

- The first line will contain the number of elements present in the array.
- The second line will contain the elements of the array.

Output Format:

- The output contains only the element which occurs most times in the array.

Source Code:

```
frequentElementOfArray.c
```

```
#include <stdio.h>

int occurrence( ){
    // Write your code here
    return 0;
}

int main(){
    int n, number, i, count, repeatFix = 0, countFix = 0, j;
```

```

scanf("%d", &n);
int arr[10];
for(int i = 0; i < n;i++) {
    scanf("%d", &arr[i]);
}
for(i = 0; i < n; i++){
    count = 1;
    for(j = i + 1;j<n;j++){
        if(arr[i] == arr[j]){
            count++;
        }
    }
    if(count > countFix){
        repeatFix = arr[i];
        countFix = count;
    }
}
printf("%d",repeatFix);
return 0;
}

```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

9
4 3 6 9 7 5 4 1 2
4

Test Case - 2

User Output

10
3 3 6 9 8 5 2 1 4 3
3