Question :HATFD1020

Find the Majority Element in an Array

Write a program to find the majority element in an array (an element that appears more than n/2 times).

For example, in the array [3, 3, 4, 2, 4, 4, 2, 4, 4], the output should be 4. Do not use any

built-in functions for array manipulation or counting.

Instructions: Implement a manual count and comparison logic to find the majority element.


```java
public class Hashagile {

        public static void main(String[] args) {

    int finval=0;

    int finc=0;

                int arr[]= {3,3,4,2,4,4,4,2,4,4};

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

                {

                        int count =0;

                        for(int j=0;j<arr.length;j++)

                        {

                                if(arr[i]==arr[j])

                                {

                                        count++;

                                }

                        }

                        if(count>arr.length/2 && finc<count)

                        {

                                finval=arr[i];

                                finc=count;

                        }
```

```
            }
            System.out.println(finval);
        }
}
```

1.Sample input : {3,3,4,2,4,4,4,2,4,4}

 Sample Output :4

2.Sample input : {3,3,4,2,4,4,4,2,4,4,1,1,1,1,1,1,1}

 Sample Output :0

3.Sample input : {1,2,3,1,2,1,2,1,2,3,1,1,1}

 Sample Output :1