**DAY 19**

**CODE:**

#include<stdio.h>

#include<stdlib.h>

int majorityElement(int a[], int size)

{

int \*temp;

temp=(int \*)malloc(size\*sizeof(int));

int i,j,c=0;

for(i=0;i<size;i++)

{

c=0;

for(j=i+1;j<size;j++)

{

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

{

c++;

}

}

temp[i]=c;

}

for(i=0;i<size;i++)

{

if(temp[i]>=size/2)

{

return a[i];

}

}

return -1;

}

void main()

{

int \*a,\*b,n,m;

printf("\nEnter the size of the array: ");

scanf("%d",&n);

a=(int \*)malloc(n\*sizeof(int));

printf("\nEnter the elements: \n");

for(int i=0;i<n;i++)

{

scanf("%d",&a[i]);

}

printf("\nThe majority element of the array is: %d",majorityElement(a,n));

}

**OUTPUT:**



