**DAY 14**

**CODE:**

#include<stdio.h>

#include<stdlib.h>

int removeDuplicates(int\* nums, int numsSize){

int \*a;

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

int i,j=0;

for(i=0;i<numsSize-1;i++)

{

if(nums[i]!=nums[i+1])

{

a[j]=nums[i];

// printf("%d",a[j]);

j++;

}

}

a[j]=nums[i];

for(i=0;i<j+1;i++)

{

nums[i]=a[i];

}

return j+1;

}

void main()

{

int \*a,n;

int i,t;

printf("\nEnter the number of elements in the array: ");

scanf("%d",&n);

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

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

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

{

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

}

printf("\nThe array is: ");

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

{

printf("%d ",a[i]);

}

t=removeDuplicates(a,n);

printf("\n\nThe array after removing duplicates is: ");

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

{

printf("%d ",a[i]);

}

}

**OUTPUT:**



