# Program: Linear Search

#include<iostream> //required header file Linear Search

using namespace std;

void main() //the main function

{

int n,i,j,p,k=0,t=0; //initialising the required variables

cout<<"Enter the size of array\n";

cin>>n; //getting the size of he array

int a[50];

cout<<"Enter The data\n";

for(i=0;i<n;i++) //getting the elements into the array using a for loop

cin>>a[i];

cout<<"Enter The data to search its position\n";

cin>>p; //asking for the data to search its position

for(j=0;j<n;j++) //selecting an element in the order and operating as follows

{

if(a[j]==p) //checking the condition

{

cout<<"The Data is at: "<<j+1<<"\n"; //if the data matches, diaplaying the position

k=1; //doing this just to make sure that the data is present

t=t+1; //counting the number of times the data repeated

}

}

if(t==0)

cout<<"";

else //displaying the number of times repeated

cout<<"The Entered data is repeated "<<t<<" times\n";

if(k==0) //if data not found k remains 0

cout<<"Data Not Found\n"; //displaying that the data is not found

}

# Output:

