

Given an integer array of size N. Write Program to find whether Arrays are disjoint or not. Two arrays are said to be disjoint if they have no elements in common.

Sample input 1:

4

2 -4 -1 -3

3

1 3 5

Sample output 1:

Disjoint

Sample input 2:

5

1 5 -7 6 3

4

2 4 6 8

Sample output 2:

Not disjoint. ( 6 is common)

Solution:

C

```
#include<stdio.h>
```

```
int DisjointOrNot(int *arr1, int *arr2, int n1, int n2)
```

```
{
```

## Talent Battle 100 Days Coding Series

```
int flag = 1;
for (int i=0; i<n1; i++)
{
    for (int j=0; j<n2; j++)
    {
        if (arr1[i] == arr2[j])
        {
            flag = 0;;
        }
    }
    if(flag == 0)
    {
        break;
    }
}
return flag;
}
```

```
int main()
{
    int n1,n2;
    scanf("%d",&n1);
    int arr1[n1];
    for(int i = 0 ; i<n1 ; i++)
    {
```

TalentBattle

## Talent Battle 100 Days Coding Series

```
scanf("%d",&arr1[i]);
}
scanf("%d",&n2);
int arr2[n2];
for(int i = 0 ; i<n2 ; i++)
{
    scanf("%d",&arr2[i]);
}
if(DisjointOrNot(arr1,arr2,n1,n2) == 1)
{
    printf("Disjoint");
}
else
{
    printf("Not disjoint");
}
return 0;
}
```

### C++

```
#include<bits/stdc++.h>
```

```
using namespace std;
```

```
bool DisjointOrNot(int arr1[], int arr2[], int n1, int n2)
```

```
{
```

## Talent Battle 100 Days Coding Series

```
bool flag = true;
for (int i=0; i<n1; i++)
{
    for (int j=0; j<n2; j++)
    {
        if (arr1[i] == arr2[j])
        {
            flag = false;;
        }
    }
    if(flag == false)
    {
        break;
    }
}
return flag;
}
```

```
int main()
{
    int n1,n2;
    cin>>n1;
    int arr1[n1];
    for(int i = 0 ; i<n1 ; i++)
    {
```

TalentBattle

## Talent Battle 100 Days Coding Series

```
        cin>>arr1[i];
    }
    cin>>n2;
    int arr2[n2];
    for(int i = 0 ; i<n2 ; i++)
    {
        cin>>arr2[i];
    }
    if(DisjointOrNot(arr1,arr2,n1,n2))
    {
        cout<<"Disjoint";
    }
    else
    {
        cout<<"Not disjoint";
    }
    return 0;
}
```

### JAVA

```
import java.util.*;

class Main
{
    static boolean DisjointOrNot(int arr1[], int arr2[], int n1, int n2)
    {
```

## Talent Battle 100 Days Coding Series

```
boolean flag = true;
for (int i=0; i<n1; i++)
{
    for (int j=0; j<n2; j++)
    {
        if (arr1[i] == arr2[j])
        {
            flag = false;;
        }
    }
    if(flag == false)
    {
        break;
    }
}
return flag;
}
```



TalentBattle

```
public static void main(String[] args) throws java.lang.Exception
{
    Scanner sc = new Scanner(System.in);
    int n1 = sc.nextInt();
    int arr1[] = new int[n1];
    for(int i = 0 ; i<n1 ; i++)
    {
```

## Talent Battle 100 Days Coding Series

```
        arr1[i] = sc.nextInt();
    }
    int n2 = sc.nextInt();
    int arr2[] = new int[n2];
    for(int i = 0 ; i<n2 ; i++)
    {
        arr2[i] = sc.nextInt();
    }
    if(DisjointOrNot(arr1,arr2,n1,n2)==true)
    {
        System.out.print("Disjoint");
    }
    else
    {
        System.out.print("Not disjoint");
    }
}
}
```

### PYTHON

```
def DisjointOrNot(arr1,arr2,n1,n2):
    flag = True;
    for i in range(0,n1):
        for j in range(0,n2):
            if arr1[i] == arr2[j] :
```

## Talent Battle 100 Days Coding Series

```
    flag = False  
    if flag == False :  
        break  
    return flag
```

```
n1 = int(input())  
arr1 = list(map(int,input().split(' ')))  
n2 = int(input())  
arr2 = list(map(int,input().split(' ')))  
if DisjointOrNot(arr1,arr2,n1,n2) == True :  
    print("Disjoint")  
else:  
    print("Not disjoint")
```



TalentBattle