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Input

```
5
1 2 3 4 5
5
1 2 3 4 5
```

Output

```
Enter size of first array
5
Enter the elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
```

Input

```
5
1 2 3 4 5
5
1 2 3 4 5
```

Output

```
Enter the elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
1 2 3 4 5
The two arrays are same
```

Input

```
5
1 2 3 4 5
5
1 9 8 5 6
```

Output

```
Enter size of first array
5
Enter the elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
```

Input

```
5
1 2 3 4 5
5
1 9 8 5 6
```

Output

```
Enter the elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
1 9 8 5 6
The two arrays are different
```

ARRAYS ARE SAME OR DIFFERENT

Program:

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

```
int main()
```

```
{
    int a[20], b[20], i, n1, n2, temp;

    printf("Enter size of first array\n");
    scanf("%d", &n1);
    printf("Enter the elements of first array\n");
    for (i = 0; i < n1; i++)
    {
        scanf("%d", &a[i]);
    }

    printf("\n Enter size of second array\n");
    scanf("%d", &n2);
    printf("Enter elements of second array\n");
    for (i = 0; i < n2; i++)
    {
        scanf("%d", &b[i]);
    }

    if (n1 != n2)
    {
        printf("\n the two arrays are different\n");
    }
    else
    {
        for (i = 0; i < n1; i++)
        {
            if (a[i] != b[i])
            {
                temp = 0;
                break;
            }
            else
            {
                temp = 1;
            }
        }
    }
}
```

```

}
if (temp == 0)
{
    printf("In the two arrays are different");
}
else
{
    printf("In the two arrays are same");
}
}
}
}

```

Algorithm

step 1 - start

step 2 - Input n_1

step 3 - for ($i=0; i < n_1; i++$)

Input $a[i]$

[End for]

step 4 - Input n_2

step 5 - Repeat for ($i=0; i < n_2; i++$)

Input $b[i]$

step 6 - if ($n_1 \neq n_2$)

output "The two arrays are different"

else

repeat for ($i=0; i < n_1; i++$)

if ($a[i] \neq b[i]$)

temp = 0

break

else

temp = 1

[End if]

[End for]

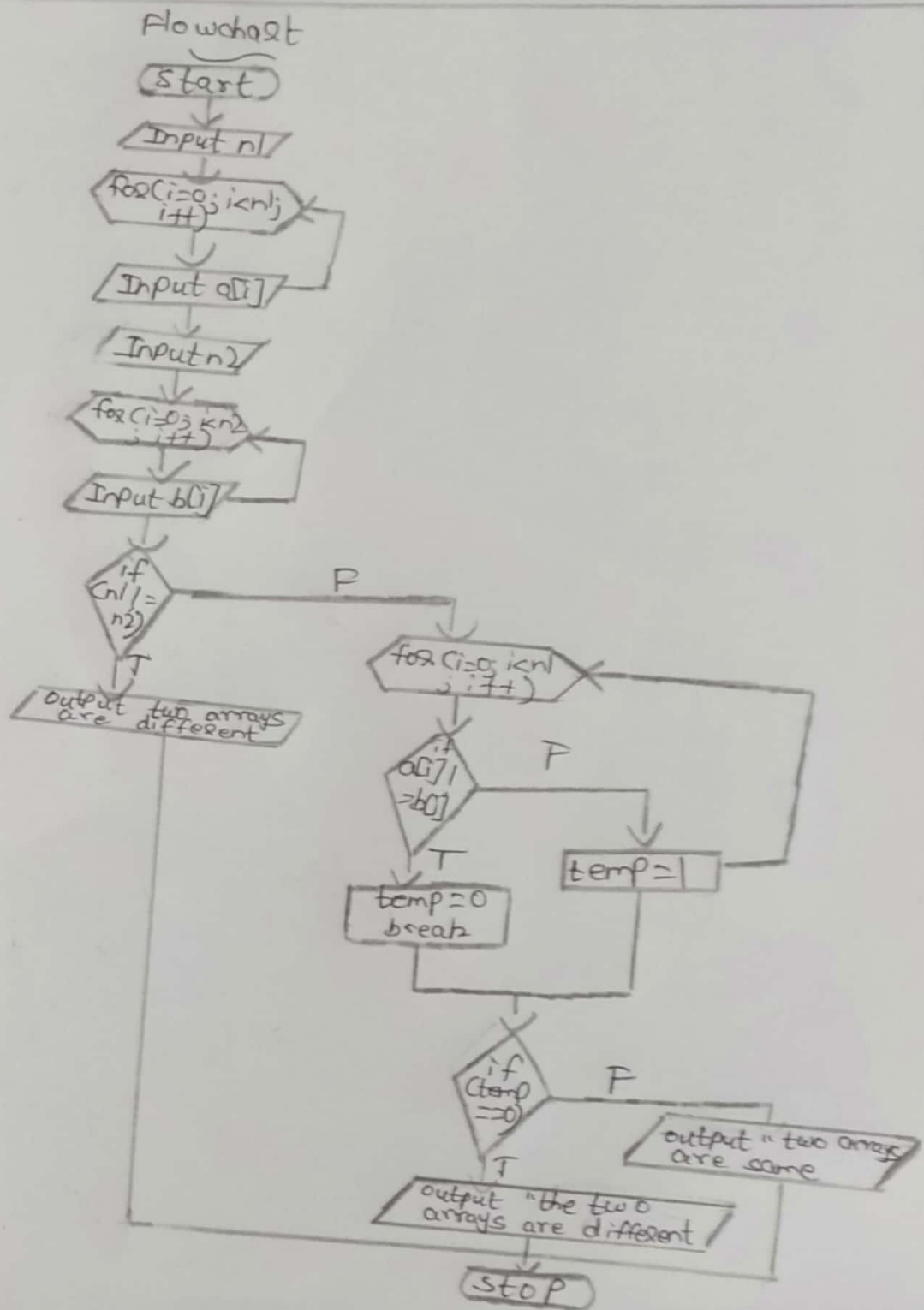
if (temp == 0)

output "The two arrays are different"

else

output "Two arrays are same"

step 7 - stop



output 1

Enter size of first array
5
Enter elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
1 2 3 4 5
Two arrays are same

output 2

Enter size of first array
5
Enter elements of first array
1 2 3 4 5
Enter size of second array
5
Enter elements of second array
1 9 8 5 6
Two arrays are different