### **C PROGRAM:**

## Write a C program to count distinct elements in an array.

```
include <stdio.h>
void distict_elements(int a[], int n);
int main()
  int size_array, i, arr[20];
  scanf("%d", &size array);
  for(i=0; i<size_array; i++)</pre>
     scanf("%d", &arr[i]);
  }
  distict_elements(arr, size_array);
  return 0;
}
void distict_elements(int a[], int n)
{
  int i, j;
 for (i=0; i<n; i++)
  {
     for (j=0; j<i; j++)
     {
        if (a[i] == a[j])
          break;
     }
    if (i == j)
       printf("%d ", a[i]);
   }
}
```

#### **SNAPSHOT OF C PROGRAM:**

```
#include <stdio.h>

void distict_elements(int a[], int n);

int main()

{
    int size_array, i, arr[20];

    // Get the array size
    scanf("%d", &size_array);

    // Get the array elements

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

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

}

// Function call to print the distinct elements in an array

distict_elements(arr, size_array);

return 0;

return 0;</pre>
```

```
Output

Input- Enter the size of the array:5 Enter the array elements:1 2 3 4 4 Output- Input

Array:1 2 3 4 4 Distinct Elements:1 2 3 4
```

## **ALOGRITHM:**

**STEP1:** Declare and input the array elements.

**STEP2:** Traverse the array from the beginning.

STEP3: Check if the current element is found in the array again.

**STEP4:** if it is found, then do not print the element.

**STEP5:** Else, print that element and continue.

# **FLOWCHART:**

