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;
</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:

