1. C program to count distinct element in an array:

Algorithm.

Step1: Declare and input the array elements.
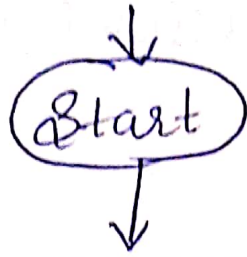
Step2: Traverse the array from the beginning.

Step3: Check if the current element is found in the array again

Step4: If it is found, then do not print that element
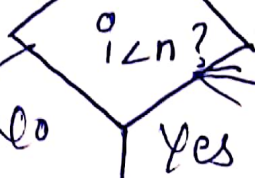
Step5: Else, print that element and continue.

Flowchart.

Start

```
int arr1[] = {1,5,8,5,7,3,2,4,1,6,2}
int n = size of (arr1)/ size of (int);
int i,j;
```
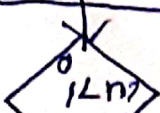
```
Printf ("the given array is: ");
i = 0
```

i < n ?

No   Yes

```
Printf("\n");
Printf ("Unique Elements
  in the given array
are: \n");
i = 0
```

```
Printf("%d,"arr1[i]);
```

i++

i < n ?

No   yes

Return o;

End

j = 0

j = i?

yes

No

arr1[i] == arr1[j] ?

yes

No

j++

i==j?

yes

printf("%d", arr1[i]);

i++

stop