```c
#include<stdio.h>
#define MAX_SIZE 100
int main()
{
  int arr[MAX_SIZE],freq[MAX_SIZE];
  int size,i,j,count;
  printf("Enter size of array:");
  scanf("%d",&size);
  printf("Enter elements in array:");
  for(i=0;i<size;i++)
  {
    scanf("%d",&arr[i]);
    freq[i]=-1;
  }
  for(i=0;i<size;i++)
  {
    count=1;
    for(j=i+1;j<size;j++)
  {
    if(arr[i]==arr[j])
  {
    count++;
    freq[j]=0;
  }
  }
  if(freq[i]!=0)
  {
    freq[i]=count;
  }
  }
  printf("Distinct elements in the array are:
\n");
  for(i=0;i<size;i++)
  {
    if(freq[i]==1)
    {
      printf("%d",arr[i]);
```

```c
    int size,i,j,count;
    printf("Enter size of array:");
    scanf("%d",&size);
    printf("Enter elements in array:");
    for(i=0;i<size;i++)
    {
      scanf("%d",&arr[i]);
      freq[i]=-1;
    }
    for(i=0;i<size;i++)
    {
      count=1;
      for(j=i+1;j<size;j++)
    {
      if(arr[i]==arr[j])
    {
      count++;
      freq[j]=0;
    }
    }
    if(freq[i]!=0)
    {
      freq[i]=count;
    }
    }
    printf("Distinct elements in the array are:
\n");
    for(i=0;i<size;i++)
    {
      if(freq[i]==1)
      {
        printf("%d",arr[i]);
      }
    }
    return 0;
}

```

```
Enter size of array:Enter elements
in array:Distinct elements in the
array are:
0123456789
```

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1) Write a C program to count distinct elements in an Array.

Algorithum :-

Step 1 :- Start

Step 2 :- Input size, i, j, count

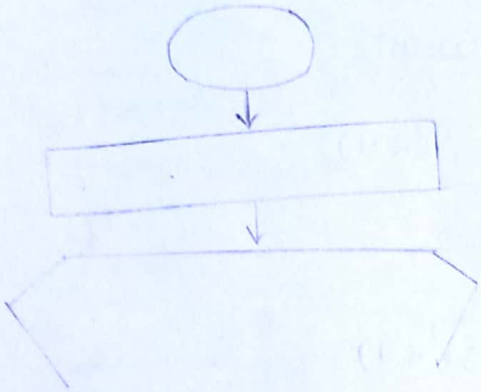
Step 3 :- for (i=0; i<size; i++)
{
freq [i] = -1;
}

Step 4 :- for (i=0; i<size; i++)
{
count = 1;
for (j=1; j<size; j++)
{
if (arr [i] = arr [j])
{
count ++;
freq [j] = 0;
}
if (freq [i] != 0)
{
freq [i] = count;
}
}

Step 5 :→ output distinct elements in the array ax

Step 6 :- for (i=0; i<size; i++)

```
{
    if (freq[i]==1)
    {
        output
    }
}
```



Flowchart :—