



```
#include<iostream>
   using namespace std;
   void countingSort(int arr[], int n)
       int count[10]={0};
       int b[n+1];
       //count elements
       for(int i=0;i<n;i++)</pre>
           int index=arr[i];
           count[index]++;
       //left sum of count array
       for(int i=1;i<10;i++)</pre>
           count[i]+= count[i-1];
       //new index
       for(int i=0;i<n;i++)</pre>
           b[count[arr[i]]]=arr[i];
           count[arr[i]]--;
       //copy from b to arr
       for(int i=0;i<n;i++)</pre>
           arr[i]=b[i+1];
   int main()
       int arr[]={5,1,3,2,4,6,9,7,8};
       int n=sizeof(arr)/sizeof(int);
       countingSort(arr,n);
       for(int i:arr)
           cout<<i<" ";
       return 0;
    Radix Sort: -
                                    258
                        189
                  25
                             537
                       country
                                            1
                  110
                                                       025
                                         - 11D
11 J = 150
537/1 % 10 -> 7
                                                       075
                                          025
                                                       1 1 0
                                            537
                                           2 58
                                                       189
                  189
                                                       258
                                            075
                  537
                                 189
                                         - 189
                                                       537
```

