radixsort\_07.cpp

**Compile:** g++ radixsort\_07.cpp -o radixsort\_07

**Run:** ./radixsort\_07

**Program:**

#include<iostream>

using namespace std;

void radix(int \*a)

{

staticint b[10][10];

inti,c,k=0,p=0,q=10,t=1,j=0,count=1;

for(i=0;i<10;i++)

{

if(a[i]>k)

k=a[i];

}

while(k>0)

{

k=k/10;

p++;

}

while(p>0)

{

for(i=0;i<=9;i++)

{

c=a[i];

while(c!=0)

{

c=c%q;

c=c/t;

j=0;

while(b[c][j]!=0)

j++;

b[c][j]=a[i];

c=0;

}

}

k=0;

for(i=0;i<10;i++)

{

for(j=0;j<10;j++)

{

if(b[i][j]!=0)

{

a[k]=b[i][j];

b[i][j]=0;

k++;

}

}

}

cout<<"\n Array After pass "<<count<<"\n";

for(i=0;i<=9;i++)

{

cout<<a[i]<<"\t";

}

q=q\*10;

t=t\*10;

p--;

count++;

}

}

int main()

{

int a[10],i;

cout<<"Enter the 10 Values";

for(i=0;i<10;i++)

{

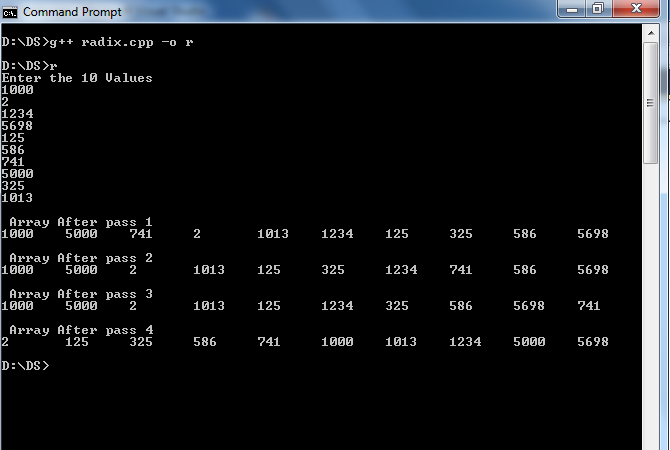
cin>>a[i];

}

radix(a);

}

**Output:**

****