find the next higher permutation of the given number as an array of digits. If such a number doesn’t exist, return -1.

#include<iostream>

using namespace std;

int main()

{

int a[20],n,temp,pos=-1;

cout<<"Enter the number of digits in the number ";

cin>>n;

cout<<"Enter the digits of the number \n";

for(int i=0;i<n;i++)

{

cin>>a[i];

}

for(int i = n-1;i>0;i--)

{

if(a[i]>a[i-1])

{

pos = i;

temp = a[i];

a[i] = a[i-1];

a[i-1] = temp;

break;

}

}

for(int j=0;j<n;j++)

for(int i=pos;i<n;i++)

{

if(a[i]>a[i+1])

{

temp = a[i];

a[i] = a[i+1];

a[i+1] = temp;

}

}

if(pos==-1)

{

cout<<"Number does not exist";

}

else

{

cout<<"The number greater than the given number and has same set of digits is ";

for(int i=0;i<n;i++)

{

cout<<a[i];

}

}

return 0;

}