#include<bits/stdc++.h>

using namespace std;

void Swap(int i, int j, vector<int>& v){

int temp=v[i];

v[i]=v[j];

v[j]=temp;

}

void SelectionSort(int N,vector<int>& v)

{

for(int i=0;i<N;i++){

int min\_ele\_index=i;

for(int j=i+1;j<N;j++){

if(v[min\_ele\_index]>v[j]){

min\_ele\_index=j;

}

}

Swap(i,min\_ele\_index,v);

}

}

void PrintVec(vector<int> &v){

for(int i=0;i<v.size();i++){

cout<<v[i]<<" ";

}

cout<<endl;

}

int main()

{

int N;

cout<<"Enter size of array : ";

cin>>N;

vector<int> v;

for(int i=0;i<N;i++){

int temp;

cin>>temp;

v.push\_back(temp);

}

cout<<"Before : ";

PrintVec(v);

SelectionSort(N,v);

cout<<"After : ";

PrintVec(v);

}