#include<iostream>

#include<algorithm>

#include<vector>

using namespace std;

int main(){

// for binary search

vector<int> v;

v.push\_back(1);

v.push\_back(2);

v.push\_back(3);

v.push\_back(6);

v.push\_back(7);

cout<<"finding the number 3 ---> "<<binary\_search(v.begin(),v.end(),3)<<endl;

cout<<"lower\_bound "<<lower\_bound(v.begin(),v.end(),6)-v.begin()<<endl;

cout<<"upper\_bound "<<upper\_bound(v.begin(),v.end(),4)-v.begin()<<endl;

// for find minimun and maximun element.

int a=3;

int b=5;

cout<<"max "<<max(a,b)<<endl;;

cout<<"min "<<min(a,b);

// swap two numbers..

swap(a,b);

cout<<endl<<"a "<<a<<endl;

// reverse a string..

string abcd="abcd";

reverse(abcd.begin(),abcd.end());

cout<<"string "<<abcd <<endl;

// rotate the elements..

rotate(v.begin(),v.begin()+1,v.end());

cout<<"after rotate "<<endl;

for(int i:v){

cout<<i<<" ";

}

// sorting the elements..

cout<<"sorting"<<endl;

sort(v.begin(),v.end());

for(int i:v){

cout<<i<<" ";

}

}