#include <iostream>

#include <string>

using namespace std;

//Question 1

//int main(){

// int num;

// //asking user to enter number

// cout<<"enter number: ";

// cin>>num;

// //using for loop and if statement to find and display multiple factors

// for (int i = 1; i <= num; ++i) {

// if (num % i == 0) {

// cout << i << " "; }

// }

// cout << std::endl;

// return 0;

//}

//Question 3

//int main(){

// int num;

// bool range;

//

// cout<<"enter num :";

// cin>>num;

// if (num>10 && num<=20){

// cout<<1;

// }

// else{

// cout<<0;

// }

//

// return 0;

//}

//Question 4

//int main(){ int N, i, j;

//bool isyes=false;

//cout<<"Enter Number : "; cin>>N;

//i=N;

//while(i>1){

//j=i-1; isyes=false; while(j>1){

//if(i%j==0){

//// cout<<i<<" "<<j<<endl;

//isyes=false; break;

//}

//else if(i%j==1){

//isyes=true;

//}

//j--;

//}

//

// if(isyes==true){

//cout<<"Largest Prime Number under "<<N<<" is: "<<i; break;

//

//}

//i--;

//}

//}

//

//Question 5

//int main() {

// string string1, string2;

// int len2,i;

// string reverse2;

// //inputting strings

// cout << "Enter string 1: ";

// cin >> string1;

// cout << "Enter string 2: ";

// cin >> string2;

// //checking if they are equal and reversing them accordingly

// if(string1==string2)

// {

// len2 = string2.length();

// for( i=len2 - 1; i>=0; i--)

// {

// reverse2 += string2[i];

// }

//

// cout<<"The strings are equal so ";

// cout<<"the first string is : "<<string1<<endl;

// cout<<"the second string now is : "<<reverse2;

//

// }

// else

// {

// cout<<"The strings unequal";

// }

//return 0;

//}

//Question 6

//int main(){

//int dividend=0, divisor=1, remainder, qoutient, result, count; while(divisor>dividend){

//cout<<"Dividend Must be Greater than the Divisor!"<<endl; cout<<"Enter the Dividend: ";

//cin>>dividend; cout<<"Enter the Divisor: "; cin>>divisor;

//}

//for(count=1; count<=dividend; count++){ remainder=dividend%divisor; result=(divisor\*count)+remainder; if(result==dividend){

//qoutient=count; break;

//}

//}

//cout<<dividend<<" / "<<divisor<<" = "<<qoutient<<endl; if(remainder>0)

//{

//cout<<"The Remainder is: "<<remainder;

//}

//return 0;

//}

//Question 7

//

//int main(){

//string letter, uletter; int len, count, count2;

//cout<<"Please Enter a Word: "; cin>>letter;

//uletter=letter;

//for(count=0; count<letter.length(); count++){ tolower(letter[count]);

//for(count2=count+1; count2<=letter.length(); count2++ ){ if(letter[count]==letter[count2]){

//letter[count]=' '; letter[count2]=' ';

//

//}

//}

//}

//uletter="";

//for(count=0; count<letter.length(); count++){ if(isspace(letter[count])){

//continue;

//

//}

//else{

//

//}

//}

//

//

//

//uletter += letter[count];

//

//cout<<"New Word is: "<<uletter<<endl;

//}

//Question 8

//int main(){

// int i,j,k;

// k=8;

// //initialzing array biger than 5 elements

// int a[k]={1,2,3,4,5,6,7,8};

// //outputting values of extended array

//cout<<"values of extended array are: ";

// for (j=0;j<8;j++){

// cout<<a[j]<<" ";

// }

//

//}

//Question 9

//int main(){ int arr[10];

//int X, inp=0, size, i=0;

//bool flag=false;

//

// while(inp != -1){

//cout<<"Enter a Value for Array, Press -1 to Quit!";

//cin>>inp;

//if(inp==-1){

//break;

//}

//else{

//arr[i]=inp;

// i++;

//

//}

//}

// //asking user for triplet number

//cout<<"Enter Number for Which Triplet is Required: ";

//cin>>X;

//size=sizeof(arr)/sizeof(arr[0]);

// for (i = 0; i < size - 2; ++i) {

// for (int j = i + 1; j < size - 1; ++j) {

// for (int k = j + 1; k < size; ++k) {

//if (arr[i] + arr[j] + arr[k] == X) {

//cout << "Triplet: " << arr[i] << " " << arr[j] << " " << arr[k] << endl; flag=true;

//}

//}

//}

//}

//if(flag==false){

//cout<<"Triplet not Found!";

//}

//

//}

//Question 10

//int main()

//{int i,j,k,z,temp;

//int num[6];

////entering elements in array

//for(k=0;k<6;k++){

// cout<<"enter element in array"<<endl;

// cin>>num[k];

//}

////bubble sorting using for loops

//for(i=0;i<6;i++){

// for (j=0;j<6;j++){

// if (num[j]>num[j+1]){

//

// temp=num[j];

// num[j]=num[j+1];

// num[j+1]=temp;}

// else{continue;

// }

//

// }

//

//}

////displayimg sorted results

//cout<<"sorted elements in array are: "<<endl;

// for(z=0;z<6;z++){

// cout<<num[z]<<endl;

// }

//

//}