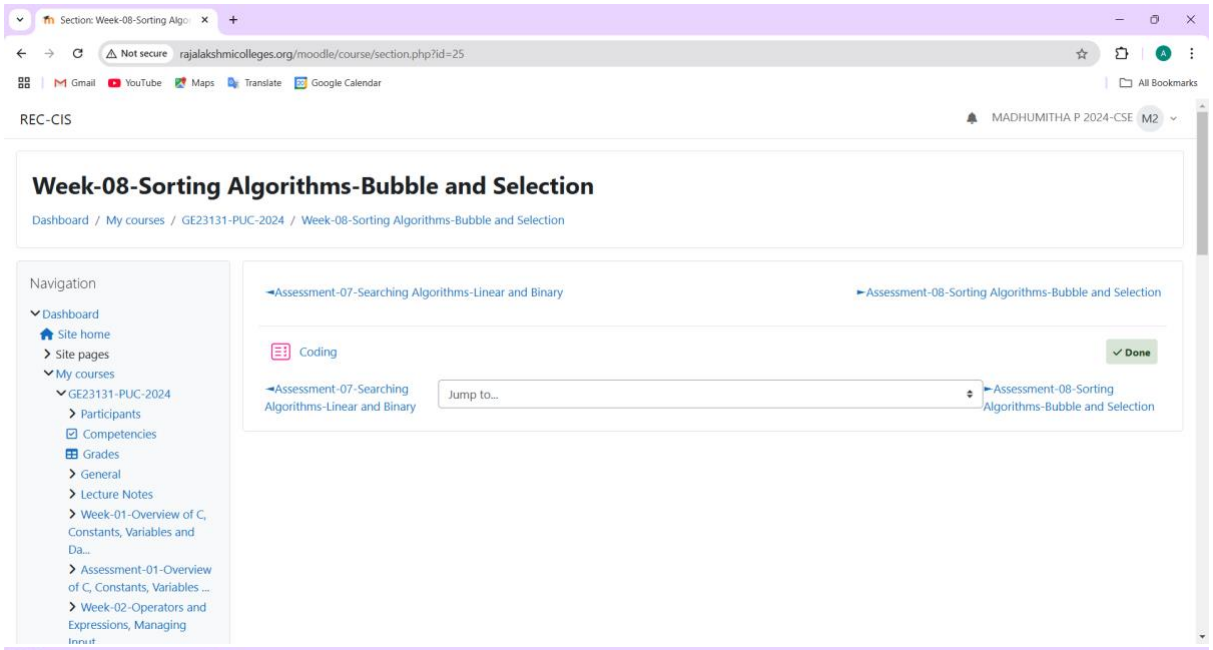
Section: Week-08-Sorting Algo
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MADHUMITHA P 2024-CSE
M2
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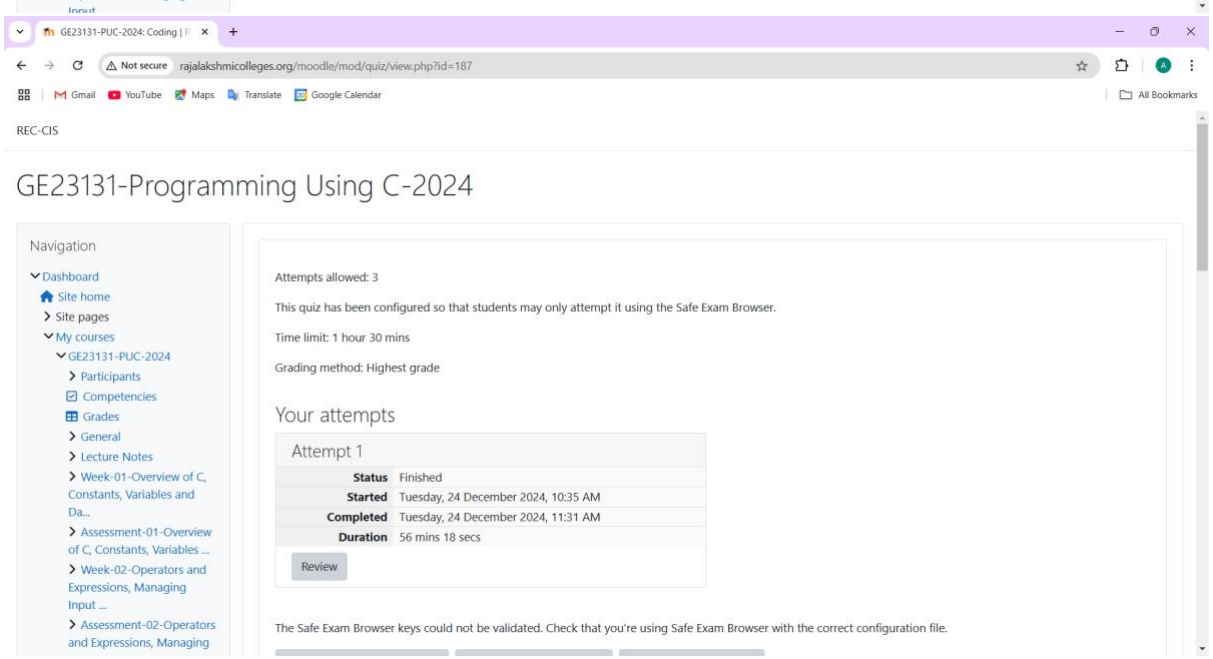
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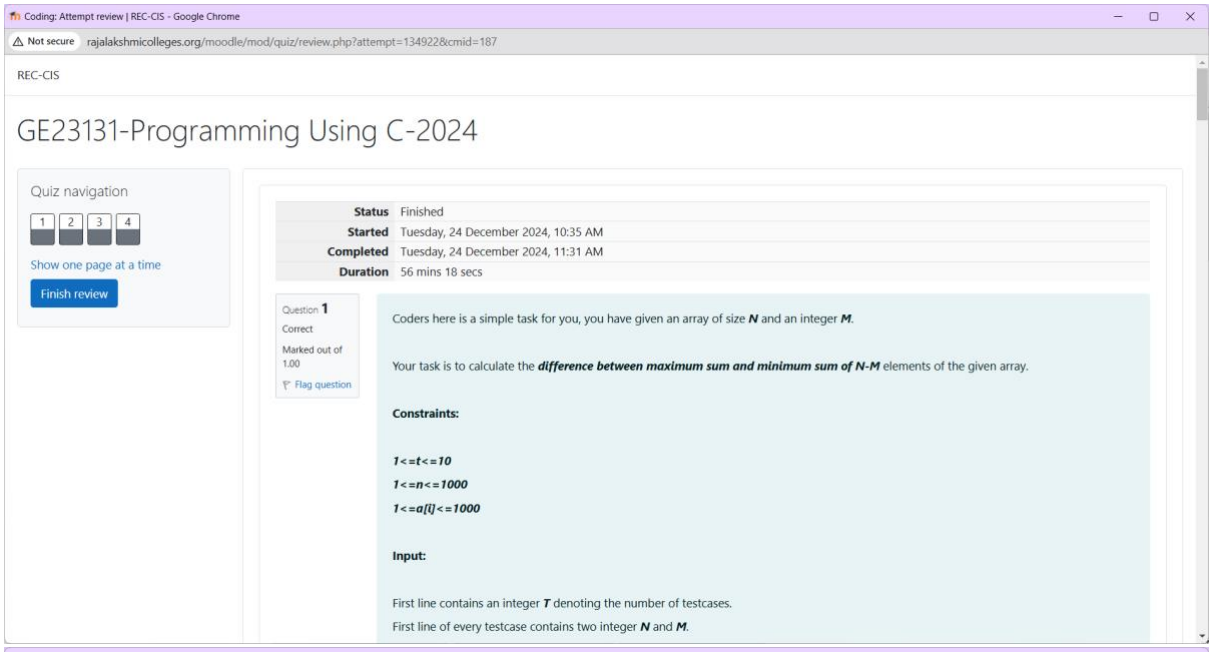
Assessment-02-Operators and Expressions, Managing
Attempts allowed: 3
This quiz has been configured so that students may only attempt it using the Safe Exam Browser.
Time limit: 1 hour 30 mins
Grading method: Highest grade
Your attempts
Attempt 1
Status Finished
Started Tuesday, 24 December 2024, 10:35 AM
Completed Tuesday, 24 December 2024, 11:31 AM
Duration 56 mins 18 secs
Review
The Safe Exam Browser keys could not be validated. Check that you're using Safe Exam Browser with the correct configuration file.


Coding: Attempt review | REC-CIS - Google Chrome
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REC-CIS
GE23131-Programming Using C-2024
Quiz navigation
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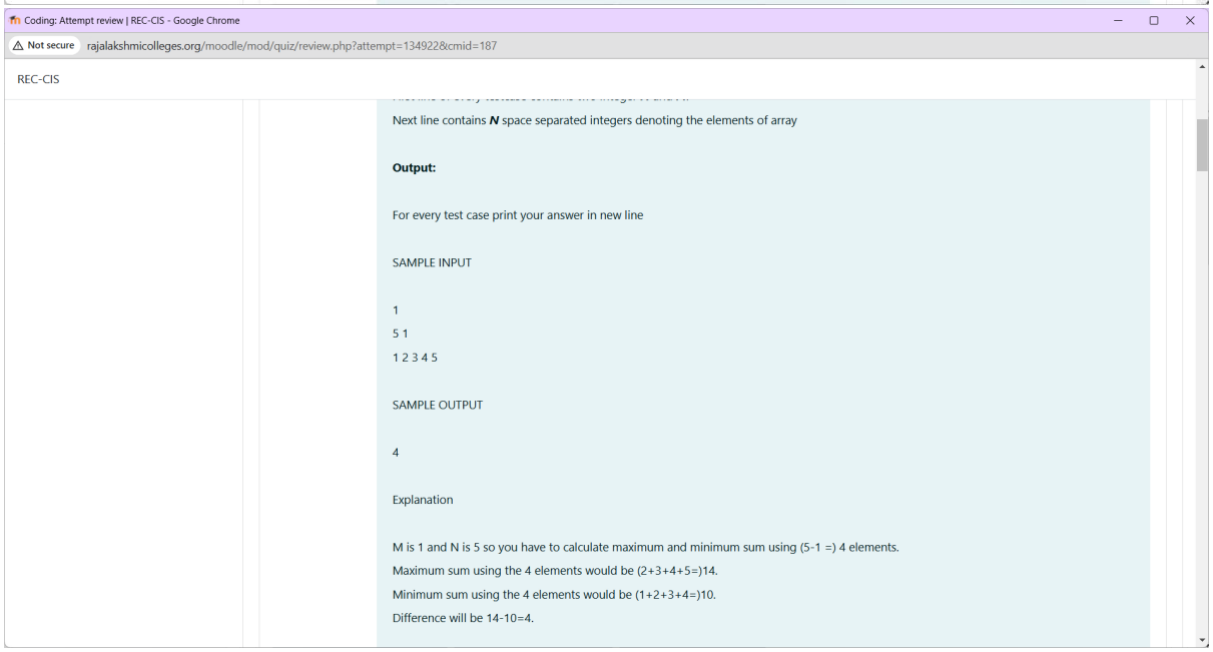
Show one page at a time
Finish review
Status Finished
Started Tuesday, 24 December 2024, 10:35 AM
Completed Tuesday, 24 December 2024, 11:31 AM
Duration 56 mins 18 secs
Question 1
Correct
Marked out of 1.00
Flag question
Coders here is a simple task for you, you have given an array of size N and an integer M.
Your task is to calculate the difference between maximum sum and minimum sum of N-M elements of the given array.
Constraints:
1<=t<=10
1<=n<=1000
1<=a[i]<=1000
Input:
First line contains an integer T denoting the number of testcases.
First line of every testcase contains two integer N and M.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REC-CIS
Next line contains N space separated integers denoting the elements of array
Output:
For every test case print your answer in new line
SAMPLE INPUT
1
5 1
1 2 3 4 5
SAMPLE OUTPUT
4
Explanation
M is 1 and N is 5 so you have to calculate maximum and minimum sum using (5-1 =) 4 elements.
Maximum sum using the 4 elements would be (2+3+4+5=)14.
Minimum sum using the 4 elements would be (1+2+3+4=)10.
Difference will be 14-10=4.

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int n,m,d,min,temp;
        scanf("%d %d",&n,&m);
        d=n-m;
        int arr[n];
        for(int i=0;i<n;i++)
        scanf("%d",&arr[i]);
        for(int j=0;j<n;j++)
        {
            min=j;
            for(int k=j;k<n;k++)
            {
                if(arr[k]<arr[min])
                min=k;
            }
            temp=arr[min];
            arr[min]=arr[j];
            arr[j]=temp;
        }
        int maxsum=0,minsum=0;
        for(int a=0;a<d;a++)
        minsum+=arr[a];
        for(int b=n-1;b>m-1;b--)
        maxsum+=arr[b];
        printf("%d\n",maxsum-minsum);
    }
}
```

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

	Input	Expected	Got	
✓	1 5 1 1 2 3 4 5	4	4	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 1.00

Flag question

A new deadly virus has infected large population of a planet. A brilliant scientist has discovered a new strain of virus which can cure this disease. Vaccine produced from this virus has various strength depending on midichlorians count. A person is cured only if midichlorians count in vaccine batch is more than midichlorians count of person. A doctor receives a new set of report which contains midichlorians count of each infected patient, Practo stores all vaccine doctor has and their midichlorians count. You need to determine if doctor can save all patients with the vaccines he has. The number of vaccines and patients are equal.

Input Format

First line contains the number of vaccines - N. Second line contains N integers, which are strength of vaccines. Third line contains N integers, which are midichlorians count of patients.

Output Format

Print a single line containing '***Yes***' or '***No***'.

Input Constraint

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REC-CIS

1 < N < 10

Strength of vaccines and midichlorians count of patients fit in integer.

SAMPLE INPUT

5

123 146 454 542 456

100 328 248 689 200

SAMPLE OUTPUT

No

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n,min1,min2,temp,flag=1;
    scanf("%d",&n);
    int vac[n],pat[n];
    for(int i=0;i<n;i++)
    scanf("%d",&vac[i]);
    for(int i=0;i<n;i++)
    scanf("%d",&pat[i]);
    for(int j=0;j<n-1;j++)
    {
        min1=j,min2=j;
        for(int k=j;k<n;k++)
        {
            if(vac[k]<vac[min1])
            min1=k;
            if(pat[k]<pat[min2])
            min2=k;
        }
        temp=vac[min1];
        vac[min1]=vac[j];
        vac[j]=temp;
        temp=pat[min2];
        pat[min2]=pat[j];
        pat[j]=temp;
    }
    for(int i=0;i<n;i++)
    {
        if(vac[i]<=pat[i])
        {
            flag=0;
            break;
        }
    }
    if(flag==1)
    printf("Yes");
    else
    printf("No");
}
```

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

	Input	Expected	Got	
✓	5 123 146 454 542 456 100 328 248 689 200	No	No	✓

Passed all tests! ✓

Question 3
Correct
Marked out of 1.00
Flag question

You are given an array of n integer numbers $a_1, a_2, \ldots, a_n$. Calculate the number of pair of indices (i, j) such that $1 \le i < j \le n$ and a_i xor $a_j = 0$.

Input format

- First line: n denoting the number of array elements
- Second line: n space separated integers $a_1, a_2, \ldots, a_n$.

Output format

Output the required number of pairs.

Constraints

$1 \le n \le 10^6$

$1 \le a_i \le 10^9$

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

SAMPLE INPUT

5

1 3 1 4 3

SAMPLE OUTPUT

2

Explanation

The 2 pair of indices are $(1, 3)$ and $(2,5)$.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,count=0;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    scanf("%d",&arr[i]);
```

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
    for(int i=0;i<n-1;i++)
    {
        for(int j=i+1;j<n;j++)
        {
            if((arr[i]^arr[j])==0)
            count++;
        }
    }
    printf("%d",count);
}
```

	Input	Expected	Got	
✓	5 1 3 1 4 3	2	2	✓

Passed all tests! ✓

Question **4**

Correct

Marked out of 1.00

Flag question

You are given an array ***A*** of non-negative integers of size ***m***. Your task is to sort the array in non-decreasing order and print out the original indices of the new sorted array.

Example:

A={4,5,3,7,1}

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REC-CIS

After sorting the new array becomes A={1,3,4,5,7}.

The required output should be "4 2 0 1 3"

INPUT :

The first line of input consists of the size of the array

The next line consists of the array of size m

OUTPUT :

Output consists of a single line of integers

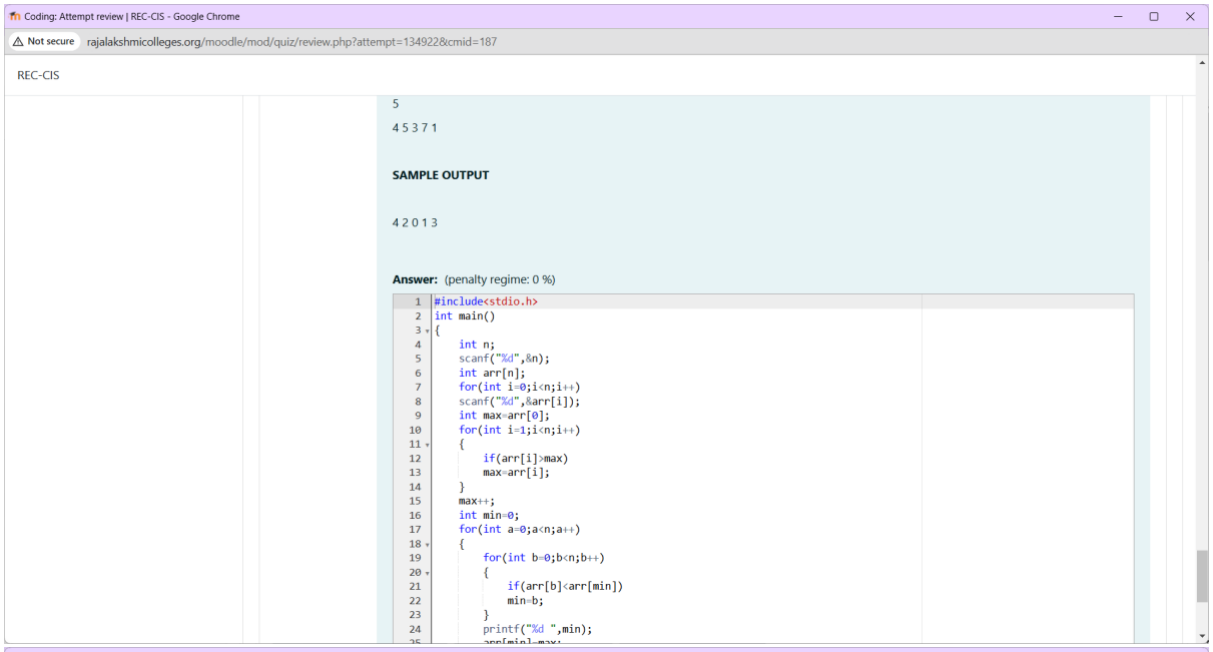
CONSTRAINTS:

1<=m<=106

0<=A[i]<=106

NOTE: The indexing of the array starts with 0.

SAMPLE INPUT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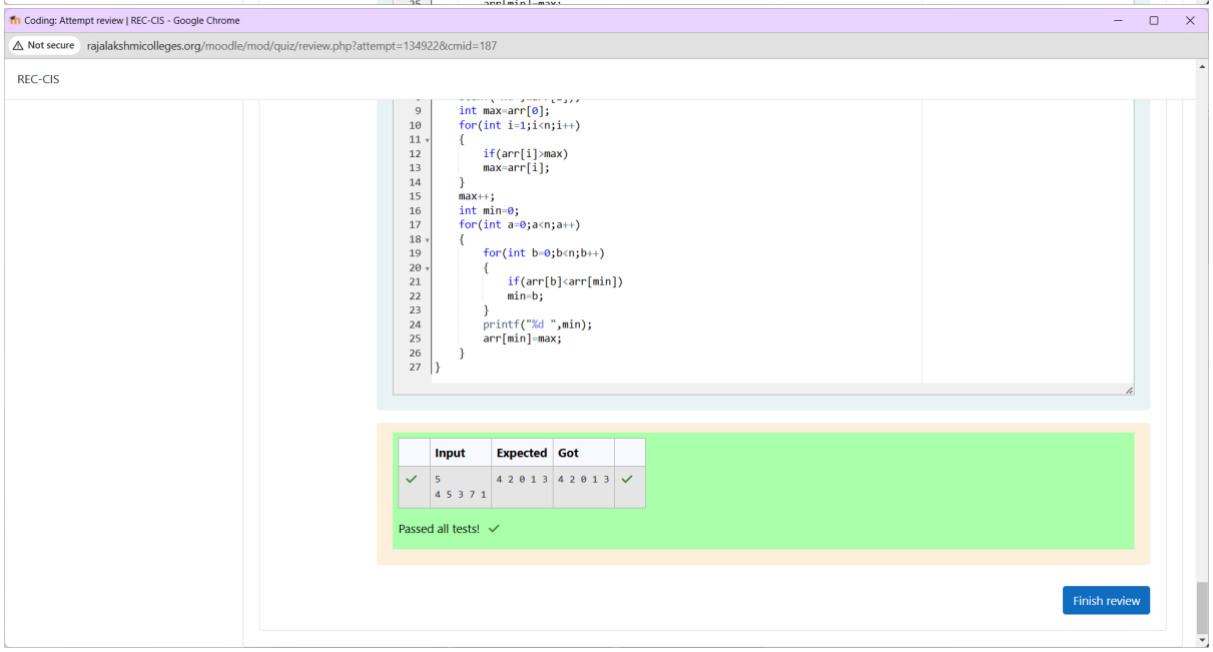
REC-CIS
5
4 5 3 7 1
SAMPLE OUTPUT
4 2 0 1 3
Answer: (penalty regime: 0 %)
#include<stdio.h>
int main()
{
int n;
scanf("%d",&n);
int arr[n];
for(int i=0;i<n;i++)
scanf("%d",&arr[i]);
int max=arr[0];
for(int i=1;i<n;i++)
{
if(arr[i]>max)
max=arr[i];
}
max++;
int min=0;
for(int a=0;a<n;a++)
{
for(int b=0;b<n;b++)
{
if(arr[b]<arr[min])
min=b;
}
printf("%d ",min);


Coding: Attempt review | REC-CIS - Google Chrome
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rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134922&cmid=187
REC-CIS
int max=arr[0];
for(int i=1;i<n;i++)
{
if(arr[i]>max)
max=arr[i];
}
max++;
int min=0;
for(int a=0;a<n;a++)
{
for(int b=0;b<n;b++)
{
if(arr[b]<arr[min])
min=b;
}
printf("%d ",min);
arr[min]=max;
}
}
Input
Expected
Got
5
4 5 3 7 1
4 2 0 1 3
4 2 0 1 3
Passed all tests!
Finish review