



আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

Assignment

Assignment no- 14

Submission date- 11.05.2020

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Submitted to-

Mr. Jamil As-ad

Assistant Lecturer, IIUC

Cell: 01626890190

jamilasad1@gmail.com

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

1. Given an integer **N** followed by **N** integers. Find out the **GCD**.

Sample Input	Sample Output
5 6 4 8 10 20	2
3 5 3 2	1

Code for above question :

Coding C

Auto saved at 21:27:54

RUN MENU

```

1
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     //Author is Sorowar Mahabub
7     //Studies B. Sc in CSE
8     //Int' Islamic University Chittagong (IIUC)
9     //Cell: 01834-756433
10    //Email: sorowarmahabub1709vip@gmail.com
11
12    int N, a, gcd, r, x= 1;
13    scanf("%d", &N);
14    while(x < N)
15    {
16        scanf("%d", &a);
17
18        r = a%x;
19        if(r == 0)
20        {
21            gcd= x;
22
23        }
24        x++;
25    }
26    printf("%d\n", gcd);
27    return 0;
28 }
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

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Compile Result

```
5
6 4 8 10 20
2
```


[Process completed - press Enter]

Compile Result

```
3
5 3 2
1
```


[Process completed - press Enter]

2. URI 1101, 1113, 1114, 1115, 1151.




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sorowarmahabub1709vip@gmail.com


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SOURCE CODE

VISUALIZE THE SOURCE CODE OF YOUR SUBMISSION, PLUS SOME EXTRA DETAILS.

SUBMISSION # 18126447

PROBLEM:	1101 - Sequence of Numbers and Sum
ANSWER:	Accepted
LANGUAGE:	C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME:	0.000s
FILE SIZE:	474 Bytes
SUBMISSION:	5/10/20, 12:35:16 PM

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SOURCE CODE

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int m, n, o, sum= 0;
6     while(1)
7     {
8         scanf("%d%d", &m, &n);
9         if(m <= 0 || n <= 0)
10            break;
11         if(m > n)
12         {
13             o= m;
14             m= n;
15             n= o;
16         }
17         while(m <= n)
18         {
19             sum += m;
20             printf("%d ", m);
21
22             m++;
23         }
24         printf("Sum=%d\n", sum);
25         sum= 0;
26     }
27
28     return 0;
29 }
30

```

URI- 1113



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sorowarmahabub1709vip@gmail.com

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PROBLEM: 1113 - Ascending and Descending


ANSWER: **Accepted**

LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]


RUNTIME: 0.000s

FILE SIZE: 693 Bytes


SUBMISSION: 5/10/20, 12:34:34 PM




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SOURCE CODE

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int m, n, x= 0;
6     while(1)
7     {
8         scanf("%d%d", &m, &n);
9         if(m == n)
10            break;

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

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**FAQS**

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```

11     if(m < n)
12     {
13         while(x < m)
14         {
15             if(m < n)
16                 printf("Crescente\n");
17             else printf("Decrescente\n");
18             break;
19             x++;
20         }
21     }
22     if(m > n)
23     {
24         while(x < n)
25         {
26             if(m < n)
27                 printf("Crescente\n");
28             else printf("Decrescente\n");
29             break;
30             x++;
31         }
32     }
33 }
34
35 return 0;
36 }

```

URI- 1114

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sorowarmahabub1709vip@gmail.com

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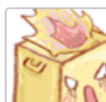
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PROBLEM: 1114 - Fixed Password
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 287 Bytes
SUBMISSION: 5/10/20, 12:35:56 PM



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SOURCE CODE

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int m;
6     while(1)
7     {
8         scanf("%d", &m);
9         if(m == 2002)
10        {
11            printf("Acesso Permitido\n");
12            break;
13        }
14        else
15            printf("Senha Invalida\n");
16    }
17
18    return 0;
19 }

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

URI- 1115



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sorowarmahabub1709vip@gmail.com

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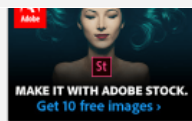


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FAQS

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PROBLEM: 1115 - Quadrant
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 682 Bytes
SUBMISSION: 5/7/20, 10:54:26 AM



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SOURCE CODE

```

1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     //Author is Sorowar Mahabub
6     //Studies B. Sc in CSE
7     //Int' Islamic University Chittagong (IIUC)
8     //Cell: 01834-756433
9     //Email: sorowarmahabub1709vip@gmail.com
10
11     double x, y;
12     while(1)
13     {
14         scanf("%lf%lf", &x, &y);
15
16         if(x == 0 || y == 0)
17         {
18             break;
19         }
20
21         else if(x > 0 && y > 0)
22         {
23             printf("primeiro\n");
24         }
25         else if(x < 0 && y > 0)
26         {
27             printf("segundo\n");
28         }
29         else if(x < 0 && y < 0)
30         {
31             printf("terceiro\n");
32         }
33         else if(x > 0 && y < 0)
34         {
35             printf("quarto\n");
36         }
37     }
38     return 0;
39 }
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

URI- 1151



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sorowarmahabub1709vip@gmail.com

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FAQS

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the tool?

VISUALIZE THE SOURCE CODE OF YOUR SUBMISSION, PLUS SOME EXTRA DETAILS.

SUBMISSION # 18126431

PROBLEM: 1151 - Easy Fibonacci
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 501 Bytes
SUBMISSION: 5/10/20, 12:33:34 PM

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SOURCE CODE

```
1 #include <stdio.h>
2 int main()
3 {
4     int x,y, a=0,b=1,c=0;
5     scanf("%d", &x);
6     y= 1;
7
8     //Author: Sorowar Mahabub
9
10    while(y < x)
11    {
12        if(y%2==1)
13        {
14            printf("%d ",c);
15            c=a+b;
16            a=c;
17        }
18        else if(y==2)
19            printf("%d ",c);
20        else if(y%2==0)
21        {
22            printf("%d ",c);
23            c=a+b;
24            b=c;
25        }
26        y++;
27    }
28    printf("%d\n",c);
29    return 0;
30 }
```

আসসালামু আলাইকুম,
স্যার! Assignment (13 no.) এর Prime or Not Prime'র
কোডটা ০ ও ১ 'র জন্য ভেরি কাজ করবে না, তাই পুনরায় কোডটি
ঠিক করে এ Assignment (14 no.) এর সাথে জমা দিচ্ছি।

Author: Sorowar Mahabub

ID: C201032, A section, CSE, IIUC.

1. Given an integer N. Print whether it's Prime or not.

Sample Input	Sample Output
19	Prime
54	Not Prime
2	Prime

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Code for above question :

```
Coding C
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RUN MENU

1 #include <stdio.h>
2 int main()
3 {
4     int n, x, m;
5     scanf("%d", &n);
6     x= 2;
7     m= 0;
8     /* Author: Md. SOROWAR MAHABUB RABBY
9 Code for Ass.13 (Updated 1 no.), Prime or not */
10
11     while(x<n/2)
12     {
13         if(n % x == 0)
14         {
15             m= 1;
16             break;
17         }
18         x++;
19     }
20
21     if((m == 0 && n != 1 && n != 0) || n == 2)
22     printf("Prime\n");
23     else printf("Not Prime\n");
24
25
26
27     return 0;
28 }
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

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Compile Result

19
Prime

[Process completed - press Enter]

Compile Result

54
Not Prime

[Process completed - press Enter]

Compile Result

2
Prime

[Process completed - press Enter]

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: **C201032**, Section: **A**

Department of CSE (Computer Science and Engineering)