



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

Assignment

Assignment no- 12

Submission date- 05.05.2020

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Submitted to-

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Submitted by-

MD. SOROWAR MAHABUB RABBY


Matric ID: C201032, Section: A


Department of CSE (Computer Science and Engineering)


1. URI 1074, 1078, 1080



Hi, MD. SOROWAR MAHABU...
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SUBMISSION # 18043566

PROBLEM: 1074 - Even or Odd


ANSWER: **Accepted**

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

RUNTIME: 0.000s

FILE SIZE: 557 Bytes

SUBMISSION: 5/2/20, 5:54:47 AM

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SOURCE CODE

```

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

```

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SUBMISSION # 18043681

PROBLEM: 1078 - Multiplication Table

ANSWER: **Accepted**

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

RUNTIME: 0.000s

FILE SIZE: 253 Bytes

SUBMISSION: 5/2/20, 6:28:48 AM

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SOURCE CODE

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int N, x, a, b;
6     x= a= 1;
7     scanf("%d", &N);
8     while(x <= 10)
9     {
10         x++;
11         b= a*N;
12         printf("%d x %d = %d\n", a, N, b);
13         a++;
14         b++;
15     }
16
17     return 0;
18 }

```

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

SUBMISSION # 18043448

PROBLEM: 1080 - Highest and Position

ANSWER: **Accepted**

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

RUNTIME: 0.000s

FILE SIZE: 301 Bytes

SUBMISSION: 5/2/20, 5:24:34 AM

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SOURCE CODE

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int x, a, max, loc;
6     x= 1;
7     max= -1;
8
9     while(x <= 100)
10    {
11        scanf("%d", &a);
12        if(a > max)
13        {
14            max= a;
15            loc= x;
16        }
17        x++;
18    }
19    printf("%d\n%d\n", max, loc);
20    return 0;
21 }

```

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2. Given an integer **N**. Print its digits separately.

Sample Input	Sample Output
123	1 2 3
54637	5 4 6 3 7

Code for the above question:

```

Coding C
Auto saved at 23:15:26
RUN MENU

1 #include<stdio.h>
2 #include<math.h>
3 #include<stdlib.h>
4 int main()
5 {
6     int n,x,power,rslt, r, c, xx, m;
7     scanf("%d",&x);
8
9     //Author : Md. Sorowar Mahabub Rabby
10
11     m= x;
12     r= 1;
13     power = 0;
14     while(x>0 && r > 0)
15     {
16         xx= x%10;
17         x= x/10;
18         power +=1;
19         r++;
20     }
21
22
23     power = power-1;
24
25     while(power>=0)
26     {
27         rslt=(m/pow(10,power));
28         m=fmod(m,pow(10,power));
29         printf("%d\n",rslt);
30
31         power-- ;
32     }
33     return 0;
34
35 }

```

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Compile Result

123

1

2

3

[Process completed - press Enter]

Compile Result

54637

5

4

6

3

7

[Process completed - press Enter]

Or(Code for the above question:),

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Coding C

RUN

MENU

Auto saved at 04:16:52

```

1
2 #include<stdio.h>
3
4 int main()
5 {
6     int x, r, ans;
7     scanf("%d", &x);
8
9     //Author : Md. Sorowar Mahabub Rabbay
10    /*আসসালামু আলাইকুম, স্যার, এ কোড'টার জন্য কোনো
11    সমাধান আছে কী? এর সমস্যা হলো- এতে যে ডিজিট গুলো
12    ইনপুট দেয়া হবে তার শেষে ০ থাকলে তাহলে output এ
13    সে ০ টা আর দেখাচ্ছে না, তবে তা শুধু মাত্র হচ্ছে
14    শেষ ডিজিট ০ হলে....*/
15
16    while(x != 0)
17    {
18        r= r * 10;
19        r= r + x%10;
20        x= x/10;
21    }
22
23    while(r > 0)
24    {
25
26        ans= r%10;
27        r = r/10;
28        printf("%d\n", ans);
29    }
30
31    return 0;
32 }

```

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Compile Result

123

1

2

3

[Process completed - press Enter]

Compile Result

3080

3

0

8

[Process completed - press Enter]

3. Number 1, 2, 3, 5 from sheet "Basic Patterns".

1. Given an integer **N**. Print the following pattern.

Sample Input	Sample Output
3	*** *** ***
4	**** **** **** ****

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Code for the above question:

```
Coding C
Auto saved at 23:24:14
RUN MENU

1 #include<stdio.h>
2
3 int main()
4 {
5     int N, M, x, y;
6     //N= row, M= column
7     x= 1;
8     scanf("%d", &N);
9     while(x <= N)
10    {
11        y=1;
12        while(y <= N)
13        {
14            printf("%3d");
15            y++;
16        }
17        printf("\n");
18        x++;
19    }
20
21    return 0;
22 }
```

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Compile Result

```
3
***
***
***
```

[Process completed - press Enter]

Compile Result

```
4
****
****
****
****
```

[Process completed - press Enter]

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2. Given two integers **N** and **M**. Print an **N x M** square.

Sample Input	Sample Output
3 2	<pre> ** ** ** </pre>
3 4	<pre> **** **** **** </pre>

Code for the above question:

Coding C

Auto saved at 23:19:08

RUN MENU

```

1 #include<stdio.h>
2
3 int main()
4 {
5     int N, M, x, y;
6     //N= row, M= column
7     x= 1;
8     scanf("%d%d", &N, &M);
9     while(x <= N)
10    {
11        y=1;
12        while(y <= M)
13        {
14            printf("%s", " ");
15            y++;
16        }
17        printf("\n");
18        x++;
19    }
20
21    return 0;
22 }

```

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Compile Result

```
3 2
**
**
**
```

[Process completed - press Enter]

Compile Result

```
3 4
****
****
****
```

[Process completed - press Enter]

3. Given an integer **N**. Print the following pattern.

Sample Input	Sample Output
3	* ** ***
4	* ** *** ****

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Code for the above question:

```
Coding C
Auto saved at 23:20:12
RUN MENU

1 #include<stdio.h>
2
3 int main()
4 {
5     int N, M, O, x, y, z;
6     //N= row
7     x= 1;
8     scanf("%d", &N);
9     while(x <= N)
10    {
11        y=1;
12        while(y <= x)
13        {
14            printf("%* ", y);
15            y++;
16        }
17        printf("\n");
18        x++;
19    }
20
21    return 0;
22 }
23
```

```
Compile Result

3
*
* *
* * *

[Process completed - press Enter]
```

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Compile Result

```

4
*
* *
* * *
* * * *

```

[Process completed - press Enter]

5. Given an integer **N**. Print the following pattern.

Sample Input	Sample Output
3	<pre> * *** ***** </pre>
4	<pre> * *** ***** ***** </pre>

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Code for the above question:

```
Coding C
Auto saved at 23:22:25
RUN MENU

1
2 #include <stdio.h>
3 int main()
4 {
5     int row, c, n;
6     scanf("%d", &n);
7     row = 1;
8
9     while(row <= n)
10    {
11        c = 1;
12        while(c <= n-row)
13        {
14            printf(" ");
15            c++;
16        }
17
18        c = 1;
19        while(c <= 2*row - 1)
20        {
21            printf("%d", c);
22            c++;
23        }
24
25        printf("\n");
26        row++;
27
28    }
29
30    return 0;
31 }
```

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Compile Result

3

```
  *  
 * * *  
* * * * *
```

[Process completed - press Enter]

Compile Result

4

```
    *  
  * * *  
 * * * * *  
* * * * * *
```

[Process completed - press Enter]

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