



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

Assignment

Assignment no- 09

Submission date- 24.04.2020

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Submitted to-

Mr. Jamil As-ad

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Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

1. URI 1045, 1046, 1047*, 1048, 1050, 1051*

All Submissions:


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#	PROBLEM	ANSWER	LANGUAGE	TIME	DATE
17937203	1047 Game Time with Minutes	Accepted	C++17	0.000	4/23/20, 1:28:31 PM
17936805	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/23/20, 12:56:50 PM
17934617	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/23/20, 9:42:09 AM
17934377	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/23/20, 9:13:25 AM
17931254	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/22/20, 10:46:13 PM
17931234	1048 Salary Increase	Accepted	C++17	0.000	4/22/20, 10:44:45 PM
17931183	1048 Salary Increase	Presentation error	C++17	0.000	4/22/20, 10:38:53 PM
17931176	1050 DDD	Accepted	C++17	0.000	4/22/20, 10:38:02 PM
17931166	1051 Taxes	Accepted	C++17	0.000	4/22/20, 10:36:51 PM
17896655	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/20/20, 11:43:23 AM
17896505	1047 Game Time with Minutes	Wrong answer (5%)	C++17	0.000	4/20/20, 11:32:54 AM
17896027	1046 Game Time	Accepted	C++17	0.000	4/20/20, 11:00:19 AM
17893178	1045 Triangle Types	Accepted	C++17	0.000	4/20/20, 1:57:03 AM


Accepted all with source code:

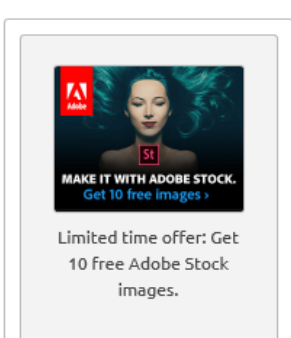

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PROBLEM: 1045 - Triangle Types


ANSWER: **Accepted**

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

RUNTIME: 0.000s

FILE SIZE: 1.65 KB

SUBMISSION: 4/20/20, 1:57:03 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 a, b, c, min, mid, max;
12     scanf("%lf%lf%lf", &a, &b, &c);
13
14     if(a>b && a>c)
15     {
16         max = a;
17         if(b>c)
18         {
19             mid = b;
20             min = c;
21         }

```

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SOURCE CODE

```

22  else {
23      mid = c;
24      min = b;
25  }
26  }
27  else if(b>a && b>c)
28  {
29      max = b;
30      if(a>c)
31      {
32          mid = a;
33          min = c;
34      }
35      else {
36          mid = c;
37          min = a;
38      }
39  }
40  else {
41      max = c;
42      if(a>b)
43      {
44          mid = a;
45          min = b;
46      }
47      else {
48          mid = b;
49          min = a;
50      }
51  }

```



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```

52
53  if(max>=mid+min)
54  {
55      printf("NAO FORMA TRIANGULO\n");
56  }
57  else if(max*max==mid*mid+min*min)
58  {
59      printf("TRIANGULO RETANGULO\n");
60  }
61  else if(max*max>mid*mid+min*min)
62  {
63      printf("TRIANGULO OBTUSANGULO\n");
64  }
65  else if(max*max<mid*mid+min*min)
66  {
67      printf("TRIANGULO ACUTANGULO\n");
68  }
69
70  if(max==mid && max==min)
71  {
72      printf("TRIANGULO EQUILATERO\n");
73  }
74
75  if((max==mid || max==min || mid==min) && (max!=mid || max!=min || mid!=min))
76  {
77      printf("TRIANGULO ISOSCELES\n");
78  }
79  return 0;
80  }

```

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SOURCE CODE

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SUBMISSION # 17896027

PROBLEM: 1046 - Game Time
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 637 Bytes
SUBMISSION: 4/20/20, 11:00:19 AM

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SOURCE CODE

```
1 #include <stdio.h>
2 int main()
3 {
4     //Author is Sorowar Mahabub
5     //Studies B. Sc in CSE
6     //Int' Islamic University Chittagong (IIUC)
7     //Cell: 01834-756433
8     //Email: sorowarmahabub1709vip@gmail.com
9
10    int a, b, t;
11    scanf("%d%d", &a, &b);
12
13    if(a == b)
14    {
15        printf("O JOGO DUROU 24 HORA(S)\n");
16    }
17    else if(a < b)
18    {
19        t = b - a;
20        printf("O JOGO DUROU %d HORA(S)\n", t);
21    }
22    else if(a > b)
23    {
24        t = (b+24) - a;
25        printf("O JOGO DUROU %d HORA(S)\n", t);
26    }
27    return 0;
28 }
```

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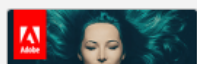
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SUBMISSION # 17937203

PROBLEM: 1047 - Game Time with Minutes
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 860 Bytes
SUBMISSION: 4/23/20, 1:28:31 PM

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SOURCE CODE


```
1 #include <stdio.h>
2 int main()
3 {
4     //Author is Sorowar Mahabub
5     //Studies B. Sc in CSE
6     //Int' Islamic University Chittagong (IIUC)
7     //Cell: 01834-756433
8     //Email: sorowarmahabub1709vip@gmail.com
9
10    int a, b, c, d, th, td, tm, x, y, z, w;
11    scanf("%d%d%d%d", &a, &b, &c, &d);
12
13    x = a * 60;
14    y = c * 60;
15
16    z = x + b;
17    w = y + d;
18
19    if(z == w)
20    {
21        printf("O JOGO DUROU 24 HORA(S) E 0 MINUTO(S)\n");
22    }
23    else if(z > w)
24    {
25        td = (24 * 60) - (z - w);
26        th = td / 60;
27        tm = td % 60;
28        printf("O JOGO DUROU %d HORA(S) E %d MINUTO(S)\n", th, tm);
29    }
30    else if(z < w)
31    {
32        td = w - z;
33        th = td / 60;
34        tm = td % 60;
35        printf("O JOGO DUROU %d HORA(S) E %d MINUTO(S)\n", th, tm);
36    }
37    return 0;
38 }
```

Submitted by-

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SUBMISSION # 17931234

PROBLEM: 1048 - Salary Increase
ANSWER: **Accepted**
LANGUAGE: C++17 (g++ 7.3.0, -std=c++17 -O2 -lm) [+0s]
RUNTIME: 0.000s
FILE SIZE: 1.34 KB
SUBMISSION: 4/22/20, 10:44:45 PM

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SOURCE CODE

```

1  #include <stdio.h>
2  int main()
3  {
4      //Author is Sorowar Mahabub
5      //Studies B. Sc in CSE
6      //Int' Islamic University Chittagong (IIUC)
7      //Cell: 01834-756433
8      //Email: sorowarmahabub1709vip@gmail.com
9
10
11     double a, s;
12     scanf("%lf", &a);
13
14     if(a >= 0 && a <= 400.00)
15     {
16         s = a * 0.15;
17         printf("Novo salario: %.2lf\n", a+s);
18         printf("Reajuste ganho: %.2lf\n", s);
19         printf("Em percentual: 15 %%\n");
20
21     }
22     else if(a >= 400.01 && a <= 800.00)
23     {
24         s = a * 0.12;
25         printf("Novo salario: %.2lf\n", a+s);
26         printf("Reajuste ganho: %.2lf\n", s);
27         printf("Em percentual: 12 %%\n");
28     }
29     else if(a >= 800.01 && a <= 1200.00)
30     {
31         s = a * 0.10;
32         printf("Novo salario: %.2lf\n", a+s);
33         printf("Reajuste ganho: %.2lf\n", s);
34         printf("Em percentual: 10 %%\n");
35     }
36     else if(a >= 1200.01 && a <= 2000.00)
37     {
38         s = a * 0.07;
39         printf("Novo salario: %.2lf\n", a+s);
40         printf("Reajuste ganho: %.2lf\n", s);
41         printf("Em percentual: 7 %%\n");
42     }
43     else if(a >= 2000.01)
44     {
45         s = a * 0.04;
46         printf("Novo salario: %.2lf\n", a+s);
47         printf("Reajuste ganho: %.2lf\n", s);
48         printf("Em percentual: 4 %%\n");
49     }
50     return 0;


```

Submitted by-


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SUBMISSION # 17931176

PROBLEM: 1050 - DDD

ANSWER: **Accepted**


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

RUNTIME: 0.000s

FILE SIZE: 894 Bytes

SUBMISSION: 4/22/20, 10:38:02 PM

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SOURCE CODE

```

2 int main()
3 {
4     //Author is Sorowar Mahabub
5     //Studies B. Sc in CSE
6     //Int' Islamic University Chittagong (IIUC)
7     //Cell: 01834-756433
8     //Email: sorowarmahabub1709vip@gmail.com
9
10    int a;
11    scanf("%d", &a);
12
13    if(a == 61)
14    {
15        printf("Brasilia\n");
16    }
17    else if(a == 71)
18    {
19        printf("Salvador\n");
20    }
21    else if(a == 11)
22    {
23        printf("Sao Paulo\n");
24    }
25    else if(a == 21)
26    {
27        printf("Rio de Janeiro\n");
28    }
29    else if(a == 32)
30    {
31        printf("Juiz de Fora\n");
32    }
33    else if(a == 19)
34    {
35        printf("Campinas\n");
36    }
37    else if(a == 27)
38    {
39        printf("Vitoria\n");
40    }
41    else if(a == 31)
42    {
43        printf("Belo Horizonte\n");
44    }
45    else printf("DDD nao cadastrado\n");
46
47    return 0;
48 }


```

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SUBMISSION # 17931166

PROBLEM: 1051 - Taxes

ANSWER: **Accepted**


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

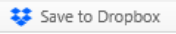
RUNTIME: 0.000s

FILE SIZE: 911 Bytes

SUBMISSION: 4/22/20, 10:36:51 PM

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SOURCE CODE

```

1  #include <stdio.h>
2  int main()
3  {
4      //Author is Sorowar Mahabub
5      //Studies B. Sc in CSE
6      //Int' Islamic University Chittagong (IIUC)
7      //Cell: 01834-756433
8      //Email: sorowarmahabub1709vip@gmail.com
9
10     double a, b, t, x, z, y;
11     scanf("%lf", &a);
12     b = 2000.00;
13
14     if(a >= 0 && a <= 2000.00)
15     {
16         printf("Isento\n");
17     }
18     else if(a >= 2000.01 && a <= 3000.00)
19     {
20         t = (a - b) * 0.08;
21         printf("R$ %.21f\n", t);
22     }
23     else if(a >= 3000.01 && a <= 4500.00)
24     {
25         x = (a - b - 1000.00) * 0.18;
26         y = 1000.00 * 0.08;
27         t = x + y;
28         printf("R$ %.21f\n", t);
29     }
30     else if(a > 4500.00)
31     {
32         x = (a - b - 2500.00) * 0.28;
33         y = 1500.00 * 0.18;
34         z = 1000.00 * 0.08;
35         t = x + y + z;
36         printf("R$ %.21f\n", t);
37     }
38
39     return 0;
40 }

```

Submitted by-

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Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

2. You know how to play rock paper scissor game. For two input of two different players you have to tell whether **Player 1 wins** or **Player 2 wins** or it's a **Draw**.

Sample Input	Sample Output
R S	Player 1 wins
P S	Player 2 wins
S S	Draw

Answer for above question :

Coding C

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RUN

MENU

```

1 #include <stdio.h>
2 int main()
3 {
4     char p1, p2;
5     scanf("%c %c", &p1, &p2);
6
7     if(p1 == p2)
8     {
9         printf("Draw\n");
10    }
11    else if(p1 == 'R' && p2 == 'P')
12    {
13        printf("Player 2 wins\n");
14    }
15    else if(p1 == 'R' && p2 == 'S')
16    {
17        printf("Player 1 wins\n");
18    }
19    else if(p1 == 'P' && p2 == 'R')
20    {
21        printf("Player 1 wins\n");
22    }
23    else if(p1 == 'S' && p2 == 'R')
24    {
25        printf("Player 2 wins\n");
26    }
27    else if(p1 == 'P' && p2 == 'S')
28    {
29        printf("Player 2 wins\n");
30    }
31    else if(p1 == 'S' && p2 == 'P')
32    {
33        printf("Player 1 wins\n");
34    }
35    return 0;
36 }
```

Submitted by-

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Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Compile Result

R S

Player 1 wins

[Process completed - press Enter]

Compile Result

P S

Player 2 wins

[Process completed - press Enter]

Compile Result

S S

Draw

[Process completed - press Enter]

Submitted by-

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