

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 1
<b>Problem</b>				<p>Problem Description:</p> <p>Selvan was playing with the a object of random size for stress relief.</p> <p>Selvan knows that the Length, Width, and Height of the object.</p> <p>But he would like to know the surface area of the object he is playing with. Can you help him in finding it?</p> <p>Functional Description:</p> <p>Surface area of the Object = <math>2 \times [\text{width} \times \text{length} + \text{length} \times \text{height} + \text{height} \times \text{width}]</math></p> <p>Constraints:</p> <p><math>1 \leq \text{length} \leq 20</math>  <math>1 \leq \text{width} \leq 20</math>  <math>1 \leq \text{height} \leq 20</math></p> <p>Input Format:</p> <p>First Line : Length of the object in Integer.</p> <p>Second Line : Width of the object in Integer</p> <p>Third Line : Height of the object in Integer</p> <p>Output Format:</p> <p>Print a single integer value representing the surface area of the object selvam is playing with.</p>		

▼ Logical Test Cases

Test Case 1	Test Case 2
INPUT (STDIN)	INPUT (STDIN)
3 2 3	3 7 4
EXPECTED OUTPUT	EXPECTED OUTPUT
42	122

▼ Mandatory Test Cases

Test Case 1	Test Case 2	Test Case 3
KEYWORD	KEYWORD	KEYWORD

int  
length,width,height,surfacearea  
a;

printf

scanf

▼ Complexity Test Cases

Test Case 1	Test Case 2	Test Case 3
CYCLOMATIC COMPLEXITY	TOKEN COUNT	NLOC

1

70

10

### Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main() {
    int length, width, height;
    scanf("%d", &length);
    scanf("%d", &width);
    scanf("%d", &height);
    int surfacearea = 2 * (width * length + length * height + height * width);
    printf("%d\n", surfacearea);
    return 1;
}
```

**Output:**

```
3
2
3
42

Process returned 1 (0x1)    execution time : 13.187 s
Press any key to continue.

3
7
4
122

Process returned 1 (0x1)    execution time : 2.430 s
Press any key to continue.
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

**Signature with Date**

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 2
Problem	<p>Problem Description:</p> <p>During the IPL Match between CSK and MI, as a part of IPL contest the question was asked to the fans.</p> <p>Who are all giving the correct answer to that question will get the free VIP box ticket for the Final for which CSK have already qualified .</p> <p>The question is convert given integer number to octal and hexadecimal number respectively.</p> <p>Abilash is an die heart CSK fan. Can you help him answer the question so that he can watch CSK play the final from VIP box?</p> <p>Constraints:</p> <p><math>1 \leq \text{iplno} \leq 10000</math></p> <p>Input Format:</p> <p>Only line of input has single integer number that need to be converted.</p> <p>Output Format:</p> <p>In the First line of output print the octal number equivalent to the input value.</p> <p>In the Second line of output print the hexadecimal number equivalent to the input value.</p>					

▼ Logical Test Cases

Test Case 1
INPUT (STDIN)
1953
EXPECTED OUTPUT
3641 7a1

Test Case 2
INPUT (STDIN)
8751
EXPECTED OUTPUT
21057 222f

▼ Mandatory Test Cases

Test Case 1
KEYWORD
int iplno;

Test Case 2
KEYWORD
scanf

Test Case 3
KEYWORD
printf

▼ Complexity Test Cases

Test Case 1
CYCLOMATIC COMPLEXITY
1

Test Case 2
TOKEN COUNT
45

Test Case 3
NLOC
9

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main() {
    int iplno;
    scanf("%d", &iplno);
    printf("%o\n", iplno);
    printf("%x\n", iplno);
    return 1;
}
```

**Output:**

```
1953
3641
7a1

Process returned 1 (0x1)  execution time : 2.037 s
Press any key to continue.
```

```
8751
21057
222f

Process returned 1 (0x1)  execution time : 1.694 s
Press any key to continue.
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

**Signature with Date**

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 3
Problem				<p>Problem Description:</p> <p>Arif came from a very low income family.</p> <p>However, his father Irfan, sent him abroad for the purpose of studying.</p> <p>Arif also concentrated well in his learning keeping in mind his father's poverty.</p> <p>Arif was excellent in mathematics.</p> <p>One day Arif had a computer class and his computer teacher asked him to create a programming logic for the mathematics problem of multiplying two numbers of type float.</p> <p>Constraints:</p> <p><math>1.00 \leq \text{var1} \leq 1000.00</math></p> <p><math>1.00 \leq \text{var2} \leq 1000.00</math></p> <p>Input Format:</p> <p>The only line of input has two floating point numbers separated by space</p> <p>Output Format:</p> <p>In the only line of output print the result of the multiplication with 4 values after decimal point.</p>		

✓ Logical Test Cases

Test Case 1	Test Case 2
INPUT (STDIN)	INPUT (STDIN)
467.78 762.89	945.16 187.49

EXPECTED OUTPUT	EXPECTED OUTPUT
356864.6875	177208.0469

✓ Mandatory Test Cases

Test Case 1	Test Case 2	Test Case 3
KEYWORD  printf	KEYWORD  scanf	KEYWORD  float val1,val2,outcome;

✓ Complexity Test Cases

Test Case 1	Test Case 2	Test Case 3
CYCLOMATIC COMPLEXITY  1	TOKEN COUNT  61	NLOC  11

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main(){
    float val1,val2,outcome;
    scanf("%f%f",&val1,&val2);
    outcome = val1*val2;
    printf("%.4f",outcome);
    return 1;
}
```

Output:

```
467.78 762.89  
356864.6875
```

```
-----  
Process exited after 1.663 seconds with return value 1  
Press any key to continue . . . |
```

```
945.16 187.49  
177208.0469
```

```
-----  
Process exited after 42.57 seconds with return value 1  
Press any key to continue . . . |
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

Signature with Date

Course	C	Session	Input & Output	Question Information	Level 1   Challenge 4
<b>Problem</b>				<p>Problem Description:</p> <p>Elavenil runs a popular bakery in his native. Elavenil has now finished baking and frosting his cupcakes, it's time to package them. Elavenil has <math>N</math> cupcakes, and needs to decide how many cupcakes to place in each package.</p> <p>Each package must contain the same number of cupcakes. Elavenil will choose an integer <math>A</math> between 1 and <math>N</math>, inclusive, and place exactly <math>A</math> cupcakes into each package.</p> <p>Elavenil makes as many packages as possible. Elavenil then gets to eat the remaining cupcakes. Elavenil enjoys eating cupcakes very much. Help Elavenil choose the package size <math>A</math> that will let him eat as many cupcakes as possible.</p> <p>Constraints:</p> <p><math>2 \leq N \leq 10000</math></p> <p>Input Format:</p> <p>Only line of input consists of a single integer <math>N</math> representing the number of cupcakes.</p> <p>Output Format:</p> <p>Print the package size that will maximize the number of leftover cupcakes.</p> <p>If multiple package sizes will result in the same number of leftover cupcakes, print the largest such size.</p>	

▼ Logical Test Cases

Test Case 1	Test Case 2
INPUT (STDIN)	INPUT (STDIN)
7643	3895

EXPECTED OUTPUT	EXPECTED OUTPUT
3822	1948

▼ Mandatory Test Cases

Test Case 1	Test Case 2	Test Case 3
KEYWORD	KEYWORD	KEYWORD
int n;	scanf	printf

▼ Complexity Test Cases

Test Case 1	Test Case 2	Test Case 3
CYCLOMATIC COMPLEXITY	TOKEN COUNT	NLOC
1	40	8

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main() {
    int n;
    scanf("%d", &n);
    int a = (n/2)+1;
    printf("%d\n", a);
    return 1;
}
```

**Output:**

```
7643  
3822
```

```
Process returned 1 (0x1)    execution time : 1.724 s  
Press any key to continue.
```

```
3895  
1948
```

```
Process returned 1 (0x1)    execution time : 2.791 s  
Press any key to continue.
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

**Signature with Date**

Course	C	Session	Input & Output	Question Information	Level 1   Challenge 5
<b>Problem</b>				<p>Problem Description:</p> <p>The Electricity Officer has mentioned the total counts of unit and amount. The officer inform the customer the bill amount in a unique format.</p> <p>The format given by electricity officer as follow:</p> <p>But customers are finding the difficult to find the exact amount that needs to be paid.</p> <p>Can you help the customers?</p> <p>Functional Description:</p> <p>Total Bill Amount = unitconsumed ^ costperunit</p> <p>Constraints:</p> <p><math>1 \leq \text{unitconsumed} \leq 500</math></p> <p><math>2 \leq \text{costperunit} \leq 10</math></p> <p>Input Format :</p> <p>The first line of input represents the integer value of unitconsumed The second line of input represents the integer value of costperunit</p> <p>Output Format:</p> <p>Print the total Bill amount in single line.</p>	

✓ Logical Test Cases

Test Case 1	
INPUT (STDIN)	
23	
3	
EXPECTED OUTPUT	
12167	

Test Case 2	
INPUT (STDIN)	
19	
5	
EXPECTED OUTPUT	
2476099	

✓ Mandatory Test Cases

Test Case 1	
KEYWORD	
unitconsumed	

Test Case 2	
KEYWORD	
costperunit	

Test Case 3	
KEYWORD	
scanf	

Test Case 4	
KEYWORD	
printf	

✓ Complexity Test Cases

Test Case 1	
CYCLOMATIC COMPLEXITY	
1	

Test Case 2	
TOKEN COUNT	
70	

Test Case 3	
NLOC	
15	

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
#include <math.h>
int main(){
    int unitconsumed,costperunit,TotalBillAmount;
    scanf("%d%d",&unitconsumed,&costperunit);
    TotalBillAmount = pow(unitconsumed,costperunit);
    printf("%d",TotalBillAmount);
    return 1;
}
```

Output:

```
23
3
12167
-----
Process exited after 2.266 seconds with return value 1
Press any key to continue . . . |
```

  

```
19
5
2476099
-----
Process exited after 10.2 seconds with return value 1
Press any key to continue . . . |
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

Signature with Date

<b>Course</b>	C	<b>Session</b>	Input & Output	<b>Question Information</b>	Level 1   Challenge 6
<b>Problem</b>				<p>Problem Description:</p> <p>On one beautiful Sunday Selvan went to Aaron's house for exam preparation.</p> <p>They have decided to study Mathematics subject because they have exams by coming Monday, Aaron is a master in Mathematics but Selvan is not so good in Mathematics so James trained with Selvan for getting a high score in the exam.</p> <p>After teaching some problems to Selvan.Aaron have given some tasks to Selvan to solve .</p> <p>The problem is to convert input float into a double. Can you help Selvan in finding the solution ?</p> <p>Constraints:</p> <p><math>1.00 \leq \text{num1} \leq 100.00</math></p> <p><math>1.00 \leq \text{num2} \leq 100.00</math></p> <p><math>1.00 \leq \text{resnum1} \leq 100.00</math></p> <p><math>1.00 \leq \text{resnum2} \leq 100.00</math></p> <p>Input Format:</p> <p>The first and second line of the input represents two different input value of type float.</p> <p>Output Format:</p> <p>The first and second line of the output represents outputs of first and second line of input of type double.</p>	

✓ Logical Test Cases

Test Case 1	Test Case 2
INPUT (STDIN)	INPUT (STDIN)
3.23 5.67	48.18 17.77

✓ Mandatory Test Cases

Test Case 1	Test Case 2
float num1,num2; KEYWORD	double resnum1,resnum2; KEYWORD

✓ Complexity Test Cases

Test Case 1	Test Case 2	Test Case 3
1 CYCLOMATIC COMPLEXITY	80 TOKEN COUNT	15 NLOC

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main(){
    float num1,num2;
    double resnum1,resnum2;
    scanf("%f%f",&num1,&num2);
    resnum1 = (double) num1;
    resnum2 = (double) num2;
    printf("%lf\n",resnum1);
    printf("%lf",resnum2);
    return 1;
}
```

Output:

```
3.23
5.67
3.230000
5.670000
-----
Process exited after 4.483 seconds with return value 1
Press any key to continue . . . |
```

```
48.18
17.77
48.180000
17.770000
-----
Process exited after 29.93 seconds with return value 1
Press any key to continue . . . |
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

Signature with Date

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 7
Problem				<p>Problem Description:</p> <p>Nancy bought apples from the fruit shop.</p> <p>The shopkeeper specified the bill amount. Nancy also gave some amount to the shopkeeper for paying the bill.</p> <p>But she likes to know the quotient and remainder after dividing the amount given by her by the bill amount specified by the shopkeeper.</p> <p>Can you help nancy in finding it?</p> <p>Constraint :</p> <p><math>5 \leq \text{amtgiven} \leq 2500</math></p> <p><math>5 \leq \text{billamt} \leq 2500</math></p> <p>Input Format:</p> <p>First Line: Integer value of amtgiven representing the amount given by nancy.</p> <p>Second Line: Integer value of billamt representing the amount specified by the shop keeper</p> <p>Output Format</p> <p>First Line: Print the Quotient in integer format.</p> <p>Second Line: Print the Remainder in integer format.</p>		

## Test Cases

### ✓ Logical Test Cases

Test Case 1
INPUT (STDIN)
600 520
EXPECTED OUTPUT
Quotient:1 Remainder:80

Test Case 2
INPUT (STDIN)
789 256
EXPECTED OUTPUT
Quotient:3 Remainder:21

### ✓ Mandatory Test Cases

Test Case 1
KEYWORD
int billamt,amtgiven;

Test Case 2
KEYWORD
scanf

Test Case 3
KEYWORD
printf

### ✓ Complexity Test Cases

Test Case 1
CYLOMATIC COMPLEXITY
1

Test Case 2
TOKEN COUNT
75

Test Case 3
NLOC
15

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main(){
    int billamt,amtgiven;
    scanf("%d%d",&billamt,&amtgiven);
    printf("Quotient:%i\n",(billamt/amtgiven));
    printf("Remainder:%i", (billamt%amtgiven));
    return 1;
}
```

Output:

```
600
520
Quotient:1
Remainder:80
-----
Process exited after 6.081 seconds with return value 1
Press any key to continue . . . |
```

```
789
256
Quotient:3
Remainder:21
-----
Process exited after 11.81 seconds with return value 1
Press any key to continue . . . |
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

Signature with Date

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 8
<b>Problem</b>				<p>Problem Description:</p> <p>Professor JD has lots of options. Bottles containing all types of potions are stacked on shelves which cover the entire wall from floor to ceiling.</p> <p>Professor JD has broken his bones several times while climbing the top shelf for retrieving a potion. He decided to get a ladder for him.</p> <p>But he has no time to visit Charu. So he instructed Bargav to make a ladder for him. Professor JD specifically wants a step ladder that looks like an inverted 'V' from a side view.</p> <p>Professor just mentioned two things before vanishing-</p> <p>B - separation between left side (LS) and right side (RS) on the ground</p> <p>LS - the length of left side</p> <p>What should be the length of RS? At one extreme LS can be vertical and at other RS can be vertical.</p> <p>Bargav is angry and confused.</p> <p>Can you help him find the minimum and maximum length of RS.</p> <p>Constraints</p> <p><math>1 \leq B &lt; LS \leq 100</math></p> <p>Input Format:</p> <p>Only line of input contains 2 integers representing B and LS respectively.</p> <p>Output Format:</p>		

	<ul style="list-style-type: none"> <li>✓ Logical Test Cases</li> </ul> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 10px; width: 45%;"> <p><b>Test Case 1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">INPUT (STDIN)</td> </tr> <tr> <td style="padding: 5px;">17 21</td> </tr> <tr> <td style="padding: 5px;">EXPECTED OUTPUT</td> </tr> <tr> <td style="padding: 5px;">12.32883 27.01851</td> </tr> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 45%;"> <p><b>Test Case 2</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">INPUT (STDIN)</td> </tr> <tr> <td style="padding: 5px;">32 49</td> </tr> <tr> <td style="padding: 5px;">EXPECTED OUTPUT</td> </tr> <tr> <td style="padding: 5px;">37.10795 58.52350</td> </tr> </table> </div> </div>	INPUT (STDIN)	17 21	EXPECTED OUTPUT	12.32883 27.01851	INPUT (STDIN)	32 49	EXPECTED OUTPUT	37.10795 58.52350				
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<b>Test Cases</b>	<ul style="list-style-type: none"> <li>✓ Mandatory Test Cases</li> </ul> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">KEYWORD</td> </tr> <tr> <td style="padding: 5px;">float b,ls,rs1,rs2;</td> </tr> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 2</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">KEYWORD</td> </tr> <tr> <td style="padding: 5px;">scanf</td> </tr> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 3</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">KEYWORD</td> </tr> <tr> <td style="padding: 5px;">printf</td> </tr> </table> </div> </div> <ul style="list-style-type: none"> <li>✓ Complexity Test Cases</li> </ul> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">CYCLOMATIC COMPLEXITY</td> </tr> <tr> <td style="padding: 5px;">1</td> </tr> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 2</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">TOKEN COUNT</td> </tr> <tr> <td style="padding: 5px;">80</td> </tr> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 33%;"> <p><b>Test Case 3</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">NLOC</td> </tr> <tr> <td style="padding: 5px;">11</td> </tr> </table> </div> </div>	KEYWORD	float b,ls,rs1,rs2;	KEYWORD	scanf	KEYWORD	printf	CYCLOMATIC COMPLEXITY	1	TOKEN COUNT	80	NLOC	11
KEYWORD													
float b,ls,rs1,rs2;													
KEYWORD													
scanf													
KEYWORD													
printf													
CYCLOMATIC COMPLEXITY													
1													
TOKEN COUNT													
80													
NLOC													
11													

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
#include <math.h>
int main() {
    int b, ls;
    scanf("%d %d", &b, &ls);
    double minrs = sqrt((double)(ls * ls - b * b));
    double maxrs = sqrt((double)(ls * ls + b * b));
    printf("%.5lf %.5lf\n", minrs, maxrs);
    return 0;
}
```

Output:

```
17 21
12.32883 27.01851
-----
Process exited after 1.753 seconds with return value 0
Press any key to continue . . . |
```

```
32 49
37.10795 58.52350
-----
Process exited after 6.585 seconds with return value 0
Press any key to continue . . . |
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

**Signature with Date**

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 9
<b>Problem</b>	<p>Problem description:</p> <p>Nathan works as an HR in a private company. He had an opportunity to interview students from various disciplines.</p> <p>He asked the candidates to perform the addition of two floating point numbers given by him and to print the output with three values after decimal point. But the student failed a math test on adding two numbers. So many students could not complete the first round.</p> <p>One day Nathan is invited as a chief placement trainer in a reputed engineering college. He willing to know how many students are capable of solving the same problem.</p> <p>Can you solve the problem and prove him that you are capable of solving it?</p> <p>Constraints:</p> <p><math>1.00 \leq \text{var1} \leq 25000.00</math></p> <p><math>1 \leq \text{var2} \leq 25000.00</math></p> <p>Input Format:</p> <p>The only line of input has two input values of type float separated by a space.</p> <p>Output Format:</p> <p>In the only line of output print the sum of two numbers with three values after decimal point</p>					

## Test Cases

### ▼ Logical Test Cases

#### Test Case 1

INPUT (STDIN)

19845.67 12985.59

EXPECTED OUTPUT

32831.258

#### Test Case 2

INPUT (STDIN)

23985.12 6545.51

EXPECTED OUTPUT

30530.629

### ▼ Mandatory Test Cases

#### Test Case 1

KEYWORD

printf

#### Test Case 2

KEYWORD

scanf

#### Test Case 3

KEYWORD

float var1,var2,res;

### ▼ Complexity Test Cases

#### Test Case 1

CYCLOMATIC COMPLEXITY

1

#### Test Case 2

TOKEN COUNT

65

#### Test Case 3

NLOC

11

Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main() {
    float var1, var2, res;
    scanf ("%f%f", &var1, &var2);
    res = var1+var2;
    printf ("% .3f", res);
    return 1;
}
```

**Output:**

```
19845.67 12985.59
32831.258
Process returned 1 (0x1)    execution time : 11.631 s
Press any key to continue.
|
```

```
23985.12 6545.51
30530.629
Process returned 1 (0x1)    execution time : 11.652 s
Press any key to continue.
|
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

**Signature with Date**

Course	C	Session	Input & Output	Question Information	Level 1	Challenge 10
Problem				<p>Problem Description:</p> <p>Sajid was booking a train ticket from Chennai to Delhi for his family. Two of the relatives was interested in joining that journey from different places with their family members.</p> <p>So, Sajid booked tickets for those persons also along with his family members.</p> <p>He wants to know the total number of tickets for this travel.</p> <p>Can you help him in finding the total number of passengers?</p> <p>Constraint:</p> <p>Sajid has to declare three integer variables named as num1, num2, num3.</p> <p><b>1 ≤ num1 ≤ 15</b></p> <p><b>1 ≤ num2 ≤ 15</b></p> <p><b>1 ≤ num3 ≤ 15</b></p> <p><b>Input Format:</b></p> <p>Only Line of input has three integers num1,num2 and num3 separated by a space representing the numbers of ticket booked by Sajid at three different interval of time.</p> <p><b>Output Format:</b></p> <p>Print the total number of tickets booked by Sajid.</p>		

<b>Test Cases</b>	<p>✓ Logical Test Cases</p> <table border="1"> <tr><th colspan="2">Test Case 1</th></tr> <tr><td>INPUT (STDIN)</td><td></td></tr> <tr><td>5 10 15</td><td></td></tr> <tr><td>EXPECTED OUTPUT</td><td></td></tr> <tr><td>30</td><td></td></tr> </table> <table border="1"> <tr><th colspan="2">Test Case 2</th></tr> <tr><td>INPUT (STDIN)</td><td></td></tr> <tr><td>3 5 6</td><td></td></tr> <tr><td>EXPECTED OUTPUT</td><td></td></tr> <tr><td>14</td><td></td></tr> </table>	Test Case 1		INPUT (STDIN)		5 10 15		EXPECTED OUTPUT		30		Test Case 2		INPUT (STDIN)		3 5 6		EXPECTED OUTPUT		14	
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Code Editor: C/Java/C++

```
//CH.SC.U4CSE24015
#include <stdio.h>
int main() {
    int num1, num2, num3, sum;
    scanf ("%d%d%d", &num1, &num2, &num3);
    sum = num1+num2+num3;
    printf ("%i", sum);
    return 1;
}
```

Output:

```
5 10 15
30
Process returned 1 (0x1)    execution time : 2.287 s
Press any key to continue.
|
```

```
3 5 6
14
Process returned 1 (0x1)    execution time : 20.434 s
Press any key to continue.
|
```

Criteria	Max Marks	Obtained Marks
Correctness of Algorithms	20	
Time and Space complexity	5	
Use of Appropriate Data Structure	5	
Code Readability and Style	10	
Test case Handling	10	
Total Marks	50	

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