URI Online Judge

**PRINCIPIANTE**

# 1001 – Extremely Easy

Read 2 variables, named **A** and **B** and make the sum of these two variables, assigning its result to the variable **X**. Print **X** as shown below. Print endline after the result otherwise you will get “Presentation Error”.

## Input

The input file will contain 2 integer numbers.

## Output

Print **X** according to the following example, with a blank space before and after the equal signal.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 10 9 | X = 19 |

| -10 4 | X = -6 |
| --- | --- |

| 15 -7 | X = 8 |
| --- | --- |

# 1002 – Area de un circulo

The area of the circle is defined as **A = π . R2**, having **π** as **3.14159**.

Calculate the area using the formula given in the problem description.

## Input

Read the variable **R** (double precision), that is the radius of the circle.

## Output

Print the variable **A**, rounded to four decimal digits.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 2.00 | A=12.5664 |

|  |  |
| --- | --- |
| 100.64 | A=31819.3103 |

|  |  |
| --- | --- |
| 150.00 | A=70685.7750 |

# 1003– Simple Sum

Read two variables A and B. Next, calculate the sum between them and assign it to the variable **SOMA**. Write the value of this variable.

## Input

The input file will contain 2 integer numbers.

## Output

Print **SOMA** according to the following example, with a blank space before and after the equal signal.

| **Samples Input** | **Samples Output** |
| --- | --- |
| 30 10 | SOMA = 40 |

| -30 10 | SOMA = -20 |
| --- | --- |

| 0 0 | SOMA = 0 |
| --- | --- |

# 1004– Simple Product

Make a simple problem that only read two integer values. After that, calculate the product between them and store the result in a variable named **PROD**. Print the result like the sample below. Do not forget to print the end line after the result otherwise you will get “Presentation Error”.

## Input

The input file will contain 2 integer numbers.

## Output

Print **PROD** according to the following example, with a blank space before and after the equal signal.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 3 9 | PROD = 27 |

|  |  |
| --- | --- |
| -30 10 | PROD = -300 |

|  |  |
| --- | --- |
| 0 9 | PROD = 0 |

# 1005- Average 1

Make a simple program that read two floating numbers corresponding to two tests for a student. After, calculate the average between them, considering that the first number has 3.5 weight and the second one have 7.5 weight. Each number can be from zero to ten, always with one digit after the decimal point. Don’t forget to print end line after the result otherwise you will get “Presentation Error”. Don’t forget the space before and after the equal sign.

## Input

The input file will contain 2 floating-point numbers with one digit after the decimal point.

## Output

Print **MEDIA**(average in portuguese) according to the following example, with 5 digits after the decimal point and a blank space before and after the equal signal.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 5.0 7.1 | MEDIA = 6.43182 |

|  |  |
| --- | --- |
| 0.0 7.1 | MEDIA = 4.84091 |

|  |  |
| --- | --- |
| 10.0 10.0 | MEDIA = 10.00000 |

# 1006- Average 2

Read three numbers (variables A, B and C), which are the test scores of a student. Then, calculate the average, knowing that the note A has a weight of 2, the note B has a weight of 3 and the note C has a weight of 5. Consider that each note can go from 0 to 10.0, always with one decimal place.

## Input

The input file contains 3 floating-point numbers with one digit after the decimal point.

## Output

Print **MEDIA**(average in portuguese) according to the following example, with a blank space before and after the equal signal.

| **Sample Input** | **Sample Output** |
| --- | --- |
| 5.0 6.0 7.0 | MEDIA = 6.3 |

|  |  |
| --- | --- |
| 5.0 10.0 10.0 | MEDIA = 9.0 |

|  |  |
| --- | --- |
| 10.0 10.0 5.0 | MEDIA = 7.5 |

# 1007- Difference

Make a simple program that reads four variables named A, B, C and D. Calculate and print the difference of the product of A and B with the product of C and D (A \* B - C \* D).

## Input

The input file contains 4 integer numbers.

## Output

Print **DIFERENCA** (DIFFERENCE in portuguese) according to the following example, with a blank space before and after the equal signal.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 5 6 7 8 | DIFERENCA = -26 |

|  |  |
| --- | --- |
| 0 0 7 8 | DIFERENCA = -56 |

|  |  |
| --- | --- |
| 5 6 -7 8 | DIFERENCA = 86 |

# 1008- Salary

Write a program that reads the number of an employee, the number of hours that he worked in a month and the amount he received per hour. Print the employee number and the salary that he will receive at end of the month, rounded to two decimal places.

* Don’t forget to print end line after the result otherwise you will get “Presentation Error”.
* Don’t forget the space before and after the equal signal and after the U$.

## Input

The input file contains 2 integer numbers and 1 floating-point number, respectively the number, hours worked and the among received by an hour worked.

## Output

Print the number and the salary of the employee, according to the given example, with a blank space before and after the equal signal.

| **Sample Input** | **Sample Output** |
| --- | --- |
| 25 100 5.50 | NUMBER = 25 SALARY = U$ 550.00 |

|  |  |
| --- | --- |
| 1 200 20.50 | NUMBER = 1 SALARY = U$ 4100.00 |

|  |  |
| --- | --- |
| 6 145 15.55 | NUMBER = 6 SALARY = U$ 2254.75 |

# 1009- Salary Bonus

You have to calculate the final salary for your employee, based on value sold by him. So you have to read his name, his fixed salary and the value sold by him. Your functionary wins 15% over all products sold. Write the final (total) salary of this functionary, rounded to two decimal places.

- Don’t forget to print end line after the result otherwise you will get “Presentation Error”.

- Don’t forget the blank spaces.

## Input

The input file contains an string (employee first name), and two double values, that are the salary of this employee and the total value sold by him.

## Output

Print the total salary of the employee, according to the given example.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| JOAO 500.00 1230.30 | TOTAL = R$ 684.54 |

|  |  |
| --- | --- |
| PEDRO 700.00 0.00 | TOTAL = R$ 700.00 |

|  |  |
| --- | --- |
| MANGOJATA 1700.00 1230.50 | TOTAL = R$ 1884.58 |

# 1010- Simple Calculate

In this problem the task is read a code for a product 1, the number of units of product 1, the price for one unit of product 1, the code for a product 2, the number of units of product 2, the price for one unit of product 2 and calculates and print the amount to be paid.

## Input

The input file contains two lines of data. In each contains 3 numbers: two integers and a floating number with 2 digits after the decimal point.

## Output

The output file will contain a message like the following example where "Valor a pagar" means **Value to Pay**. Remember the space after the ":" and after the "$" symbol. The value must be printed with 2 digits after the point.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 12 1 5.30 16 2 5.10 | VALOR A PAGAR: R$ 15.50 |

|  |  |
| --- | --- |
| 13 2 15.30 161 4 5.20 | VALOR A PAGAR: R$ 51.40 |

|  |  |
| --- | --- |
| 1 1 15.10 2 1 15.10 | VALOR A PAGAR: R$ 30.20 |

# 1011- Sphere

Make a program that calculates and print the volume of a sphere given the radius (R) of the circle. The formula to calculate the volume is: (4/3) \* pi \* R3. For the purposes of this problem the value of pi is 3.14159.

Tip: Use (4/3.0) or (4.0/3) in your formula, because some languages (including C++) assume that the result dividing two integers is another integer. :)

## Input

The input file contain an integer number.

## Output

The output file will contain a message like the following example. Remember the space before and after the equal signal. The value must be printed with 3 digits after the decimal point.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 3 | VOLUME = 113.097 |

|  |  |
| --- | --- |
| 15 | VOLUME = 14137.155 |

|  |  |
| --- | --- |
| 1523 | VOLUME = 14797486501.627 |

# 1012- Area

Make a program that reads three floating-point values: A, B and C. Then calculate and print:  
a) the area of the rectangled triangle that has base A and height C.  
b) the area of the circle of radius C. (pi = 3.14159)   
c) the area of the trapezium which has base A and B and C by height.  
d) the area of ​​the square that has side B.  
e) the area of the rectangle that has sides A and B.

## Input

The input file contains three double numbers with one digit after the decimal point.

## Output

The output file contains 5 lines of data. Each line correspond to one of the areas described above, always with a corresponding message (in portuguese) and one space after the ":" and before the calculated number. All calculated number must be printed with 3 digits after the decimal point.

| **Sample Inputs** | **Sample Outputs** |
| --- | --- |
| 3.0 4.0 5.2 | TRIANGULO: 7.800 CIRCULO: 84.949 TRAPEZIO: 18.200 QUADRADO: 16.000 RETANGULO: 12.000 |

|  |  |
| --- | --- |
| 12.7 10.4 15.2 | TRIANGULO: 96.520 CIRCULO: 725.833 TRAPEZIO: 175.560 QUADRADO: 108.160 RETANGULO: 132.080 |