

1 Sum of 3 numbers

Description

Write a program that reads 3 real numbers from the console and prints their sum.

Input

- On the first line, you will receive the number a
- On the second line, you will receive the number b
- On the third line, you will receive the number c

Output

Your output should consist only of a single line - the sum of the three numbers.

Constraints

- a, b and c will always be valid real numbers between -1000 and 1000, inclusive
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
1 2 3	6
-2 0 3	1

5.5	30.1
4.5	
20.1	

2 Company info

Description

- A company has name, address, phone number, fax number, web site and manager. The manager has first name, last name, age and a phone number.
- Write a program that reads the information about a company and its manager and prints it back on the console.

info	input
Company name:	Telerik Academy
Company address:	31 Al. Malinov, Sofia
Phone number:	+359 888 55 55 555
Fax number:	
Web site:	http://telerikacademy.com/
Manager first name:	Nikolay
Manager last name:	Kostov
Manager age:	25

Manager phone:	+359 2 981 981
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Input

- You will each piece of information about the company on a separate line, in the same order as in the example
 - i. Company name
 - ii. Company address
 - iii. Phone number
 - iv. Fax number
 - v. Web site
 - vi. Manager first name
 - vii. Manager last name
 - viii. Manager age
 - ix. Manager phone

Output

- Print the information the same way as shown in the sample test. Make sure that you print "(no fax)" if an empty line is passed as fax number.

Constraints

- The input will always be in the described format
- Only the fax number field can be empty, all other fields will have at least one symbol
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
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Telerik Academy 231 Al. Malinov, Sofia +359 888 55 55 555 http://telerikacademy.com/ Nikolay Kostov 25 +359 2 981 981	Telerik Academy Address: 231 Al. Malinov, Sofia Tel. +359 888 55 55 555 Fax: (no fax) Web site: http://telerikacademy.com/ Manager: Nikolay Kostov (age: 25, tel. +359 2 981 981)
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3 Circle

Description

Write a program that reads from the console the radius r of a circle and prints its perimeter and area, rounded and formatted with 2 digits *after* the decimal point.

Input

- On the only line of the input you will receive the radius of the circle - r

Output

- You should print one line only: the perimeter and the area of the circle, separated by a whitespace, and with 2 digits precision

Constraints

- The radius r will always be a valid and positive real number
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
2	12.57
	12.57
3.5	21.99
	38.48

4 Number Comparer

Description

Write a program that gets two numbers from the console and prints the greater of them.

Input

- On the first two lines you will receive the two numbers, A and B

Output

- On the only line print the larger of the two numbers
 - *Try implementing it without using if-statements

Constraints

- The input will always be valid and in the described format.
- The numbers A and B will always be valid real number
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
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5 6	6
10 5	10
0 0	0
-5 -2	-2
1.5 1.6	1.6

5 Quadratic Equation

Description

Write a program that reads the coefficients a , b and c of a quadratic equation $ax^2 + bx + c = 0$ and solves it (prints its real roots).

Input

- On the first three lines, you will receive the coefficients a , b , and c , each on a separate line in the same order

Output

- If two different real roots exist, print them on two separate lines
 - Print the smaller root on the first line
- If only one real root exists, print it on the only output line
- If no real root exists, print the string "no real roots"
- The roots, should they exist, must be printed with precision *exactly* two digits after the floating point

Constraints

- The input will always consist of valid real numbers in the range $[-1000, 1000]$ and will follow the described format
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
2 5 -3	-3.00 0.50
-1 3 0	0.00 3.00
-0.5 4 -8	4.00
5 2 8	no real roots

6 Sum of 5 numbers

Description

Write a program that reads 5 integer numbers from the console and prints their sum.

Input

You will receive 5 numbers on five separate lines.

Output

Your output should consist only of a single line - the sum of the 5 numbers.

Constraints

- All 5 numbers will always be valid integer numbers between -1000 and 1000, inclusive
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
1 2 3 4 5	15
-1 2 -3 4 10	12
0 0 0 0 0	0

7 Numbers from 1 to N

Description

Write a program that reads an integer number N from the console and prints all the numbers in the interval $[1, n]$, each on a single line.

Input

- On the only line you will receive the number N

Output

- You should print the numbers from 1 to N, each on a separate line

Constraints

- $1 \leq N < 1000$
- N will always be a valid integer number
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
3	1 2 3
5	1 2 3 4 5

1	1
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8 Sum of N Numbers

Description

Write a program that enters a number N and after that enters more N numbers and calculates and prints their sum.

- *Note: You may need to use a for-loop.*

Input

- On the first line, you will receive the number N
- On each of the next N lines, you will receive a floating-point number

Output

- On must output only one number - the sum of the N numbers

Constraints

- $1 \leq N \leq 200$
- All numbers will be valid floating-point numbers in the range $[-1000, 1000]$
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
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3 20 60 10	90
5 2 -1 -0.5 4 2	6.5
1 1	1

9 Fibonacci Numbers

Description

Write a program that reads a number N and prints on the console the first N members of the Fibonacci sequence (at a single line, separated by comma and space - ", ") : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233,

Input

- On the only line you will receive the number N

Output

- On the only line you should print the first N numbers of the sequence, separated by ", " (comma and space)

Constraints

- $1 \leq N \leq 50$
- N will always be a valid positive integer number

- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
1	0
3	0, 1, 1
10	0, 1, 1, 2, 3, 5, 8, 13, 21, 34

10 Interval

Description

Write a program that reads two positive integer numbers N and M and prints how many numbers exist between them such that the remainder of the division by 5 is 0.

Input

- On the first two lines you will receive two integers - N on the first and M on the second.

Output

- Output a single value - the amount of numbers divisible by 5 without remainder.

Constraints

- $0 \leq N \leq M \leq 2000$
- Time limit: 0.1s

- Memory limit: 16MB

Sample tests

Input	Output	Explanation
6 11	1	10
20 37	3	25, 30, 35
2 2	0	think why