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 4.5 20.1	30.1

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

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 be least one symbol
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output

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)

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

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 <= 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

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 <= N <= 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

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 <= N <= 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 reminder 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 <= N <= M <= 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