1 Square root

Description

Write a program that reads a number and calculates and prints its square root.

- If the number is invalid or negative, print Invalid number.
- In all cases finally print Good bye. Use try-catch-finally block.

Input

On the only line you will receive a real number

Output

- Print the square root of the number or Invalid number on the first line
 - o Use 3 digits of precision
- Print Good bye on the second line

Constraints

• Time limit: 0.1s

• Memory limit: 16MB

Sample tests

Input	Output
number	Invalid number Good bye
4	2.000 Good bye

-3.14	Invalid number Good bye
17	4.123 Good bye

2 Enter numbers

Description

Write a method ReadNumber(int start, int end) that enters an integer number in a given range (start, end).

If an invalid number or non-number text is entered, the method should throw an exception. Using this method write a program that enters 10 numbers: a1, a2, ..., a10, such that 1 < a1 < ... < a10 < 100

Input

- You will receive 10 lines of input, each consisted of an integer number
 - o a1
 - o a2
 - o ...
 - o a10

Output

- Print 1 < a1 < ... < a10 < 100
 - Or Exception if the above inequality is not true

Constraints

• Time limit: 0.1s

• Memory limit: 16MB

Sample tests

Input	Output
5 7 15 29 46 47 60 70 89 98	1 < 5 < 7 < 15 < 29 < 46 < 47 < 60 < 70 < 89 < 98 < 100
87 10 29 28 43 58 95 41 2 46	Exception
5 11 20 27 49 41 52 81 89 99	Exception

3 Read file contents

Description

Write a program that enters file name along with its full file path (e.g. C:\windows\win.ini), reads its contents and prints it on the console. Find in MSDN how to use System.IO.File.ReadAllText(...). Be sure to catch all possible exceptions and print user-friendly error messages.

4 Download file

Description

Write a program that downloads a file from Internet (e.g. Ninja image) and stores it the current directory. Find in Google how to download files in C#. Be sure to catch all exceptions and to free any used resources in the finally block.