

1 Exchange numbers

Description

Write a program that reads two double values from the console A and B, stores them in variables and exchanges their values if the first one is greater than the second one. Use an if-statement. As a result print the values of the variables A and B, separated by a space.

Input

- On the first line, you will receive the value of A
- On the second line, you will receive the value of B

Output

- On the only output line, print the values of the two variables, separated by a whitespace

Constraints

- A and B will always be valid real numbers between -100 and 100
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
5	3 5
3	
2	2 4
4	

3.3	3.3 3.3
3.3	

2 Bonus Score

Description

Write a program that applies bonus score to given score in the range [1...9] by the following rules:

- If the score is between 1 and 3, the program multiplies it by 10.
- If the score is between 4 and 6, the program multiplies it by 100.
- If the score is between 7 and 9, the program multiplies it by 1000.
- If the score is less than 0 or more than 9, the program prints "invalid score".

Input

- The only input line will contain one integer number - the score

Output

- Output the score with the applied bonus

Constraints

- The score will always be a valid integer number
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
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2	20
4	400
9	9000
10	invalid score

3 Play card

Description

Classical play cards use the following signs to designate the card face: 2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K and A. Write a program that enters a string and prints "yes CONTENT_OF_STRING" if it is a valid card sign or "no CONTENT_OF_STRING" otherwise.

Input

- On the only line you will receive a single string.

Output

- Output "yes CONTENT_OF_STRING" if the string is a card sign, otherwise print "no CONTENT_OF_STRING".

Constraints

- String length will always be between 1 and 5
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
5	yes 5
1	no 1
Q	yes Q
q	no q
P	no P
10	yes 10
500	no 500

4 Multiplication sign

Description

Write a program that shows the sign (+, - or 0) of the product of three real numbers, without calculating it.

- Use a sequence of `if` operators.

Input

- On the first three lines, you will receive the three numbers, each on a separate line

Output

- Output a single line - the sign of the product of the three numbers

Constraints

- The input will always consist of valid floating-point numbers
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
2 5 2	+
2 5 -2	-
-0.5 0 -2	0

5 Biggest of 3

Description

Write a program that finds the biggest of three numbers that are read from the console.

Input

- On the first three lines you will receive the three numbers, each on a separate line.

Output

- On the only output line, write the biggest of the three numbers.

Constraints

- The three numbers will always be valid floating-point numbers in the range [-200, 200].
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
4	4
4	
4	
-0.5	0
-10	
0	

6 Biggest of 5

Description

Write a program that finds the biggest of 5 numbers that are read from the console, using only 5 if statements.

Input

- On the first 5 lines you will receive the 5 numbers, each on a separate line

Output

- On the only output line, write the biggest of the 5 numbers

Constraints

- The 5 numbers will always be valid floating-point numbers in the range [-200, 200]
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
4	4
4	
4	
4	
4	
-0.5	0
-10	
0	
-1	
-3	

7 Sort 3 Numbers

Description

Write a program that enters 3 real numbers and prints them sorted in descending order.

- Use nested `if` statements.
- *Don't use arrays and the built-in sorting functionality.*

Input

- On the first three lines, you will receive the three numbers, each on a separate line.

Output

- Output a single line on the console - the sorted numbers, separated by a whitespace

Constraints

- The three numbers will always be valid integer numbers in the range [-1000, 1000]
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
3 2 1	3 2 1
-5 3 -5	3 -5 -5
1 2 20	20 2 1

8 Digit as Word

Description

Write a program that read a digit [0-9] from the console, and depending on the input, shows the digit as a word (in English).

- Print "not a digit" in case of invalid input.
- Use a switch statement.

Input

- The input consists of one line only, which contains the digit.

Output

- Output a single line - should the input be a valid digits, print the english word for the digits. Otherwise, print "not a digit".

Constraints

- The input will never be an empty line.
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
-0.1	not a digit
1	one
9	nine
-9	not a digit

kek	not a digit
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9 Int, Double, String

Description

Write a program that, depending on the first line of the input, reads an int, double or string variable.

- If the variable is int or double, the program increases it by one.
- If the variable is a string, the program appends * at the end.
- Print the result at the console. Use switch statements.

Input

- On the first line you will receive the type of input as string in the following form:
 - integer for int
 - real for double
 - text for string
- On the second line you will be given the value of the variable.

Output

- Write a single line on the console - the value transformed according to the rules from the description.
 - Print all double variables with exactly 2-digits precision after the floating point. *Example:* 0.99

Constraints

- The input will always be valid and in the described format.
- All input numbers will be between -1000 and 1000.
- Time limit: 0.1s
- Memory limit: 16MB

Sample tests

Input	Output
integer 2	3
real -2.5	-1.50
text gosho	gosho*