Lab: Basic Syntax

Please submit your solutions (source code) of all below-described problems in Judge

1. Student Information

You will be given 3 lines of input – student name (string), age (integer number), and average grade (floating-point number). Your task is to print all the info about the student in the following format, where grade is formatted with 2 digits:

"Name: {student name}, Age: {student age}, Grade: {student grade}".

Examples

| Input | Output |
|---------------------|-----------------------------------|
| John 15 5.40 | Name: John, Age: 15, Grade: 5.40 |
| Steve 16 2.50 | Name: Steve, Age: 16, Grade: 2.50 |
| Marry 12 6.00 | Name: Marry, Age: 12, Grade: 6.00 |

2. Passed or Failed

Write a program that takes as an input a grade (floating-point number).

Prints:

- "Passed!" if the grade is equal or more than 3.00
- "Failed!" if the grade is lower than 3.00

Input

The **input** comes as a single double number.

Output

The output is either "Passed!" if the grade is more than 2.99, otherwise, you should print "Failed!".

Examples

| Input | Output | Input | Output |
|-------|---------|-------|---------|
| 5.32 | Passed! | 2.36 | Failed! |

3. Month Printer

Write a program that takes an integer from the console and prints the corresponding month.

If the number is more than 12 or less than 1 print "Error!".

















Input

You will receive a single integer on a single line.

Output

If the number is within the boundaries, print the corresponding month, otherwise, print "Error!".

Examples

| Input | Output |
|-------|----------|
| 2 | February |

| Input | Output |
|-------|--------|
| 13 | Error! |

4. Foreign Languages

Write a program that prints the language that a given country speaks. You can receive only the following combinations:

- English is spoken in England and USA
- Spanish is spoken in Spain, Argentina and Mexico
- For the others we should print "unknown"

Input

You will receive a single country name on a single line.

Output

Print the language, which the country speaks, or if it is unknown for your program, print "unknown".

Examples

| Input | Output |
|-------|---------|
| USA | English |

| Input | Output |
|---------|---------|
| Germany | unknown |

5. Divisible by 3

Write a program that prints all the numbers (on separate line) from 1 to 100, which are divisible by 3. You have to use a single **for** loop. The program should not receive input.

6. Sum of Odd Numbers

Write a program that prints the next **n odd numbers** (starting from 1) and on the last row prints the sum of them.

Input

On the first line, you will receive a number $-\mathbf{n}$. This number shows how many **odd numbers** you should print.

Output

Print the next n odd numbers, starting from 1, separated by new lines. On the last line, print the sum of these numbers.

Constraints

n will be in the interval [1...100]















Examples

| Input | Output |
|-------|---------|
| 5 | 1 |
| | 3 |
| | 5 |
| | 7 |
| | 9 |
| | Sum: 25 |

| Input | Output |
|-------|-----------------------|
| ω | 1 3 5 Sum: 9 |

7. Multiplication Table

You will receive an integer as input from the console. Print the 10 times table for this integer. See the examples below for more information.

Output

Print every row of the table in the following format:

{theInteger} X {times} = {product}

Constraints

• The integer will be in the interval [1...100]

Examples

| Input | Output |
|-------|-------------|
| 5 | 5 X 1 = 5 |
| | 5 X 2 = 10 |
| | 5 X 3 = 15 |
| | 5 X 4 = 20 |
| | 5 X 5 = 25 |
| | 5 X 6 = 30 |
| | 5 X 7 = 35 |
| | 5 X 8 = 40 |
| | 5 X 9 = 45 |
| | 5 X 10 = 50 |

| Input | Output |
|-------|-------------|
| 2 | 2 X 1 = 2 |
| | 2 X 2 = 4 |
| | 2 X 3 = 6 |
| | 2 X 4 = 8 |
| | 2 X 5 = 10 |
| | 2 X 6 = 12 |
| | 2 X 7 = 14 |
| | 2 X 8 = 16 |
| | 2 X 9 = 18 |
| | 2 X 10 = 20 |

8. Even Number

Take as an input an even number and **print its absolute value** with a message: "The number is: {absoluteValue}". If the number is odd, print "Please write an even number." and continue reading numbers.

Examples

| Input | Output | | |
|-------|------------------------------|--|--|
| 1 | Please write an even number. | | |
| 3 | Please write an even number. | | |
| | The number is: 6 | | |

| Input | Output | |
|-------|------------------|--|
| -6 | The number is: 6 | |
| | | |











