UNIVERSITY of GREENWICH
Alliance with FPT Education

Lab: Intro and Basic Syntax

Student Information

You will be given 3 lines of input – student name, age and average grade. Your task is to print all the info about the student in the following format: "**`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

Passed

Write a program, which takes as an input a **grade** and prints "**Passed!**" if the grade is **equal or more than 3.00**.

Input

The **input** comes as a single floating-point number.

Output

The **output** is either "**Passed!**" if the grade is **equal or more than 3.00**, otherwise you should print nothing.

Examples

Input	Output
5.32	Passed!

Input	Output
2.34	*(no output)*

Solution

We need to take as an input a floating-point number from the console. We will use **`double.Parse()`** to convert **string** to **double**, which we receive from **`Console.ReadLine()`**. After that we compare the grade with **3.00** and prints the result **only if** the condition returns **true**.

```
var grade = double.Parse(Console.ReadLine())
if (grade >= 3.00)
{
    Console.WriteLine("Passed!");
}
```

Passed or Failed

Modify the above program, so it will print "**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
5.32	Passed !

Input	Output
2.36	Failed !

Solution

Again, we need to take **floating-point** number from the console. After that print in the **`else`** statement the appropriate message.

```
var grade = [illegible]
if (grade >= 3.00)
{
    Console.WriteLine("Passed!");
}
else
{
    [illegible]
}
```

Back in 30 Minutes

Every time Stamat tries to pay his bills he sees on the cash desk the sign: **"I will be back in 30 minutes"**. One day Stamat was sick of waiting and decided he needs a program, which **prints the time** after **30 minutes**. That way he won't have to wait on the desk and come at the appropriate time. He gave the assignment to you, so you have to do it.

Input

The **input** will be on two lines. On the **first line**, you will receive the **hours** and on the **second** you will receive the **minutes**.

Output

Print on the console the time after **30** minutes. The result should be in format **hh:mm**. The **hours** have **one or two numbers** and the **minutes** have always **two numbers (with leading zero)**.

Constraints

- The **hours** will be between **0 and 23**.
- The **minutes** will be between **0 and 59**.

Examples

Input	Output
1 46	2:16

Input	Output
0 01	0:31

Input	Output
23 59	0:29

Input	Output
11 08	11:38

Input	Output
11 32	12:02

Hints

- Add 30 minutes to the initial minutes, which you receive from the console. If the minutes are more than 59 – increase the hours with 1 and decrease the minutes with 60. The same way check if the hours are more than 23. When you print check for leading zero.

Month Printer

Write a program, which 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!

Foreign Languages

Write a program, which 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

Hint

Think how you can **merge** multiple cases, in order to **avoid** writing more code than you need to.

Theatre Promotions

A theatre **is doing a ticket sale**, but they need a program **to** calculate the price of a single ticket. If the given age does not fit one of the categories**,** you should print "Error!". You can see the prices i**n** the table below:

Day / Age	0 <= age <= 18	18 < age <= 64	64 < age <= 122
Weekday	12$	18$	12$
Weekend	15$	20$	15$
Holiday	5$	12$	10$

Input

The input comes in **two lines**. On the **first** line, you will receive the **type of day**. On the **second** – the **age** of the person.

Output

Print the price of the ticket according to the table, or "**Error!**" if the age is not in the table.

Constraints

- The age will be in the interval **[-1000…1000]**.
- The type of day will **always be valid**.

Examples

Input	Output
Weekday 42	18$

Input	Output
Holiday -12	Error!

Input	Output
Holiday 15	5$

Input	Output
Weekend 122	15$

Divisible by 3

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

Solution

```
for (var i = 3; i <= 100; i += 3)
{
    Console.WriteLine(i);
}
```

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 – **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
3	1 3 5 Sum: 9

Multiplication Table

You will receive an **integer** as an 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

Input	Output
2	2 X 1 = 2

	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

	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

Multiplication Table 2.0

Rewrite you program so it can receive the **multiplier from the console**. Print the **table from the given multiplier to 10**. If the given multiplier is **more than 10** - print only one row with the **integer**, the given **multiplier** and the **product**. 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 1	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 5	2 X 5 = 10 2 X 6 = 12 2 X 7 = 14 2 X 8 = 16 2 X 9 = 18 2 X 10 = 20

Input	Output
2 14	2 X 14 = 28

Even Number

Take as an input an even number and **print its absolute value**. If the number is odd, print "Please write an even number." and continue reading numbers.

Examples

Input	Output

Input	Output

1 3 6	Please write an even number. Please write an even number. The number is: 6

-6	The number is: 6