# Lab: Control Flow Logic

## Multiply Numbers

Write a JS function that calculates the product of two numbers.

The **input** comes as array of strings, where each element holds a number.

The **output** should be the returned as a result of your function.

### Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |
| 3  2 | 6 |  | 23632.36  -12.3249 | -291266.473764 |

## Boxes and Bottles

Write a JS function to calculate how many boxes will be needed to fit **n** bottles if each box fits **k** bottles.

The **input** comes as array of strings, where each element holds a number. The first element is the number of bottles and the second is the capacity of a single box.

The **output** should be printed to the console.

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 20  5 | 4 |  | 15  7 | 3 | 5  10 | 1 |

## Leap Year

Write a JS function to check whether a year is leap. Leap years are either divisible by 4 but not by 100 or are divisible by 400.

The **input** comes as array of one string element, holding a number.

The **output** should be printed to the console. Print yes if the year is leap and no otherwise.

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 1999 | no |  | 2000 | yes | 1900 | no |

## Odd / Even

Write a JS function to check if a number is **odd** or **even** or **invalid** (fractions are neither odd nor even).

The **input** comes as array of one string element, holding a number.

The **output** should be printed to the console. Print odd for odd numbers, even for even number and invalid for numbers that contain decimal fractions.

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 5 | odd |  | 8 | even | 1.5 | invalid |

## Fruit or Vegetable

Write a JS function to print "**fruit**", "**vegetable**" or "**unknown**" depending on the input string.

* Fruits are: banana, apple, kiwi, cherry, lemon, grapes, peach
* Vegetable are: tomato, cucumber, pepper, onion, garlic, parsley
* All others are unknown

The **input** comes as array of one string element, the name of the fruit.

The **output** should be printed to the console.

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| banana | fruit |  | cucumber | vegetable | pizza | unknown |