

Exercise: Functions Advanced

Problems for exercise and homework for the [Python Advanced Course @SoftUni](https://softuni.org/). Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/1839>

1. Arguments Length

Create a function called **args_length** that returns the **number of arguments**. Submit only the function in the judge system.

Examples

Test Code	Output
<code>print(args_length(1, 32, 5))</code>	3
<code>print(args_length("john", "peter"))</code>	2
<code>print(args_length([1, 2, 3]))</code>	1

2. Even or Odd

Create a function called **even_odd** that can receive different **amount of numbers** and a **command** at the end. The command can be **"even"** or **"odd"**. **Filter** the numbers depending on the command and **return** them in a **list**. Submit only the function in the judge system.

Examples

Test Code	Output
<code>print(even_odd(1, 2, 3, 4, 5, 6, "even"))</code>	[2, 4, 6]
<code>print(even_odd(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, "odd"))</code>	[1, 3, 5, 7, 9]

3. Function Executor

Create a function called **func_executor** that can receive different amount of **tuples**, each of which will have exactly **2 elements**: first will be a **function** and the second will be a **tuple of the arguments** that need to be passed to that function. Create a **list** which will contain all the **results** of the **executed functions** with its corresponding **arguments**. For more clarification, see the examples below. Submit only your function in the judge system.

Examples

Test Code	Output
<pre>def sum_numbers(num1, num2): return num1 + num2 def multiply_numbers(num1, num2): return num1 * num2 print(func_executor((sum_numbers, (1, 2)), (multiply_numbers, (2, 4))))</pre>	[3, 8]

