



Assignment 1

For this assignment you are welcomed to use other regex resources such a regex "cheat sheets" you find on the web.

Before start working on the problems, here is a small example to help you understand how to write your own answers. In short, the solution should be written within the function body given, and the final result should be returned. Then the autograder will try to call the function and validate your returned result accordingly.

```
In [47]: def example_word_count():
# This example question requires counting words in the example_string to
example_string = "Amy is 5 years old"

# YOUR CODE HERE.
# You should write your solution here, and return your result, you can
# NotImplementedError below.
result = example_string.split(" ")
return len(result)

#raise NotImplementedError()
```

Part A

Find a list of all of the names in the following string using regex.

```
In [48]: import re
def names():
    simple_string = """Amy is 5 years old, and her sister Mary is 2 years c
    Ruth and Peter, their parents, have 3 kids."""
    result = re.findall("[A-Z][a-z]*", simple_string)
    return(result)
#     raise NotImplementedError()

print(names())

['Amy', 'Mary', 'Ruth', 'Peter']
```

```
In [23]: assert len(names()) == 4, "There are four names in the simple_string"
```

Part B

The dataset file in [assets/grades.txt \(assets/grades.txt\)](#) contains a line separated list of people with their grade in a class. Create a regex to generate a list of just those students who received a B in the course.