CSE 160 Spring 2025 Practice Quiz 2

1. You are given the following function definitions. Answer the questions below based on what the functions do.

```
def my_func1(x):
    return x % 2 == 0

def my_func2(x, y):
    if x > y:
        return x - y
    else:
        return y - x

def my_func3(word):
    return word[::-1]
```

   a. What will the function call `my_func1(7)` return?

   b. What about `my_func(10)`?

   c. What will `my_func2(3, 10)` return?

   d. What about `my_func2(8, 2)`?

   e. What does `my_func3("banana")` return? Explain what this function is doing in one sentence.

2. You are given a spreadsheet about grocery stores that looks like the following:

```
Target cheap groceries home clothing
Trader_Joe's medium groceries
Whole_Foods expensive groceries
Goodwill cheap home clothing
```

There are more lines that are not shown. You can assume that all lines follow the same format (`store_name price item1 item2 item3 . . .`); that is, every line has at least store_name, price, and *at least* one item, with no limit on the maximum number of items.

Write a function called `find_store()` that

- Takes in a filename as a parameter
- Opens and reads the file line by line
- Finds all of the *cheap* stores that sells *home* goods
- Returns the names of the stores as a list

```
def find_store(stores_file):
```

3. You are given a nested list representing groups of test scores:

```
scores = [[70, 80], [95], [], [100, 85, 90]]
```

a. Calculate the average score for all scores across all groups. Your code should print a single number representing the average.

b. Modify the original scores list so that any inner list with a total score less than 160 is replaced by the string `"Needs Improvement"`.