COMPSCI 101

RUNESTONE ACADEMY

THE PYTHON TUTOR

1 DO THE WOTOS

Make sure to do the WOTOs on time in class! If you miss a lecture, you have until 11:30pm the next day to fill them out! Once the deadline passes the forms will close

This form is no longer accepting responses, and has been set to automatically close by ayuboding@gmail.com.
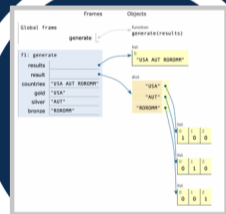
Links

- Link 1
- Link 2
- Link 3
- Link 4

2 PYTHON TUTOR IS YOUR FRIEND

Use Python Tutor to debug your code!! Python Tutor visualizes your code line by line to help you with new concepts.

3 D IS FOR DICTIONARIES

Once you learn about them dictionaries are useful for everything: keeping track of counts, items, lists, etc

4 STUDY APTS FOR EXAM CONCEPTS

APT: MedalTable

Problem Statement

The Olympic Games will be held, and have been held (and might be being held). Given the results of the olympic disciplines, generate and return the medal table.

The results of the disciplines are given as a String list results, where each element is in the format "GGG SSS BBB". GGG, SSS and BBB are the 3-letter country codes (three capital letters from 'A' to 'Z') of the countries winning the gold, silver and bronze medal, respectively.

The medal table is a String list with an element for each country appearing in results. Each element has to be in the format "CCO G S B" (quotes for clarity), where G, S and B are the number of gold, silver and bronze medals won by country CCO, e.g. "AUT 1 4 1". The numbers should not have any extra leading zeros.

Sort the elements by the number of gold medals won in decreasing order. If several countries are tied, sort the tied countries by the number of silver medals won in decreasing order. If some countries are still tied, sort the tied countries by the number of bronze medals won in decreasing order. If a tie still remains, sort the tied countries by their 3-letter code in ascending alphabetical order.

Specification

```
filename: MedalTable.py

def generate(results):
    """
    return list of strings
    based on data in results, a list of strings
    """
    # you write code here
    return []
```

Exam Concepts:
1. sorting
2. string manipulation
3. dictionaries
4. loops

5 PAY ATTENTION TO DUE DATES

The dates for all Assignments, WOTOs, Labs, Pre-labs, APTs and Exams are uploaded to the Calendar on the CS 101 Homepage, live by these dates and pay attention to which things have grace days and which don't!!