




# Daniel Gamboa


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## BASIC INFO


< > Test: Computer Science - Python II  Solved: 6/6  
- Module Project

 Similarity: none

 Score: 1800/1800

 Finished On: 06 Apr 2021

 Time Taken: 125m/168h

 Labels: -

Task	Solve Time	Score	Similarity
<a href="#">csWhereIsBob</a>	3min	300/300	none
<a href="#">csSchoolYearsAndGroups</a>	11min	300/300	none
<a href="#">csMakeItJazzy</a>	7min	300/300	none
<a href="#">csShortestWord</a>	8min	300/300	none
<a href="#">csSumOfPositive</a>	2min	300/300	none
<a href="#">csAnythingButFive</a>	8min	300/300	none

## Task details: **csWhereIsBob**

### Description:

Write a function that searches a list of names (unsorted) for the name "Bob" and returns the location in the list. If Bob is not in the array, return -1.

### Examples:

- `csWhereIsBob(["Jimmy", "Layla", "Bob"]) → 2`
- `csWhereIsBob(["Bob", "Layla", "Kaitlyn", "Patricia"]) → 0`
- `csWhereIsBob(["Jimmy", "Layla", "James"]) → -1`

### Notes:

- Assume all names start with a capital letter and are lowercase thereafter (i.e. don't worry about finding "BOB" or "bob").

### Solution (main.py3):

```
1 def csWhereIsBob(names):  
2     return names.index("Bob") if "Bob" in names else -1  
3
```

## Task details: `csSchoolYearsAndGroups`

### Description:

Imagine a school that children attend for `years`. In each year, there are a certain number of groups started, marked with the `letters`. So if `years = 7` and `groups = 4` For the first year, the groups are 1a, 1b, 1c, 1d, and for the last year, the groups are 7a, 7b, 7c, 7d.

Write a function that returns the groups in the school by year (as a string), separated with a comma and space in the form of "1a, 1b, 1c, 1d, 2a, 2b (....) 6d, 7a, 7b, 7c, 7d".

Examples:

- `csSchoolYearsAndGroups(years = 7, groups = 4) → "1a, 1b, 1c, 1d, 2a, 2b, 2c, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b, 6c, 6d, 7a, 7b, 7c, 7d"`

Notes:

- `1 <= years <= 10`
- `1 <= groups <= 26`

### Solution (main.py3):

```
1 def csSchoolYearsAndGroups(years, groups):
2     store = []
3     letters = list(string.ascii_lowercase)
4     for y in range(1, years + 1, 1):
5         for l in letters[:groups:1]:
6             store.append(str(y) + l)
7     return ", ".join(store)
8
9
```

## Task details: **csMakeItJazzy**

### Description:

Create a function that concatenates the number 7 to the end of every chord in a list. If a chord already ends with a 7, ignore that chord.

### Examples:

- `csMakeItJazzy(["G", "F", "C"]) → ["G7", "F7", "C7"]`
- `csMakeItJazzy(["Dm", "G", "E", "A"]) → ["Dm7", "G7", "E7", "A7"]`
- `csMakeItJazzy(["F7", "E7", "A7", "Ab7", "Gm7", "C7"]) → ["F7", "E7", "A7", "Ab7", "Gm7", "C7"]`
- `csMakeItJazzy([]) → []`

### Notes:

- Return an empty list if the given list is empty.
- You can expect all the tests to have valid chords.

### Solution (main.py3):

```
1 def csMakeItJazzy(chords):
2     store = []
3     for i in chords:
4         store.append(i) if i[-1] == '7' else store.append(i + "7")
5
6     return store
7
8
9
```

## Task details: **csShortestWord**

### Description:

Given a string of words, return the length of the shortest word(s).

Notes:

- The input string will never be empty and you do not need to validate for different data types.

### Solution (main.py3):

```
1 def csShortestWord(input_str):
2     return len(min(input_str.split(), key=len))
3
4     # shortest = len(input_str)
5
6     # words = input_str.split()
7     # for w in words:
8     #     if len(w) < shortest:
9     #         shortest = len(w)
10
11     # return shortest
```

## Task details: **csSumOfPositive**

### Description:

Given an array of integers, return the sum of all the positive integers in the array.

Examples:

- `csSumOfPositive([1, 2, 3, -4, 5])` ->  $1 + 2 + 3 + 5 = 11$
- `csSumOfPositive([-3, -2, -1, 0, 1])` -> 1
- `csSumOfPositive([-3, -2])` -> 0

Notes:

- If the `input_arr` does not contain any positive integers, the default sum should be 0.

### Solution (main.py3):

```
1 def csSumOfPositive(input_arr):
2     accum = 0
3     for n in input_arr:
4         if n > 0: accum += n
5
6     return accum
7
```

## Task details: **csAnythingButFive**

### Description:

Given a start integer and an ending integer (both inclusive), write a function that returns the count (not the sum) of all integers in the range (except integers that contain the digit 5).

### Examples:

- `csAnythingButFive(1, 5)` -> 1, 2, 3, 4, -> 4 (there are 4 integers in the range that do not contain the digit 5)
- `csAnythingButFive(1, 9)` -> 1, 2, 3, 4, 6, 7, 8, 9 -> 8
- `csAnythingButFive(4, 17)` -> 4,6,7,8,9,10,11,12,13,14,16,17 -> 12

### Notes:

- The output can contain the digit 5.
- The start number will always be less than the end number (both numbers can also be negative).

### Solution (main.py3):

```
1 def csAnythingButFive(start, end):
2     return len(list(filter(lambda n : '5' not in str(n), range(start, end + 1))))
3
4     # i = 0
5     # for n in range(start, end+1):
6     #     if '5' not in str(n):
7     #         i += 1
8
9     # return i
10
```