

computer science 101

SPRING 2022

Ingredients :

- Assignments — Blocking, Faces, Turtles, Transform, Guessword (x2!!), Recommender
- APTS x 55
- APT Quiz x 2
- Labs x 12
- Pre-class Quizzes x 19
- Exams x 4 (+ a bonus final)
- As many WOTDs as you can get your hands on
- CS reviewer app

```
Created on 2022/4/7  
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...  
def maximumFacts(suspects):  
    lst = []  
    if len(suspects) > 1:  
        for i in range(len(suspects)):  
            set1 = set(suspects[i].split(',') )  
            for j in range(i+1, len(suspects)):  
                set2 = set(suspects[j].split(',') )  
                lst.append(len(set1 & set2))  
    return max(lst)
```

positiveid.py

Instructions (for when you need help)

1. Post on ed discussion ; TA response time == very quick
2. Attend office hours
3. DO 10 semesters worth of mock exams

python tutor

```
1 def calculate(food1, food2, food3):  
2     set1 = set(food1.split(" "))  
3     set2 = set(food2.split(" "))  
4     set3 = set(food3.split(" "))  
5     set4 = set1.union(set2)  
6     set5 = set3.union(set4)  
7     lst = list(set1) + list(set2) + list(set3)  
8     lst2 = []  
9     for item in set5:  
10         if lst.count(item) == 2:  
11             lst2.append(item)  
12     return " ".join(sorted(lst2))  
13  
14  
15 if __name__ == '__main__':  
16     food1 = "a b a c a"  
17     food2 = "b a a"  
18     food3 = "c c a b"  
19     print(calculate(food1, food2, food3))
```

Print output (drag lower right corner to resize)

c

Frames	Objects
Global frame	function calculate(food1, food2, food3)
calculate	
food1	"a b a c a"
food2	"b a a"
food3	"c c a b"



THE 7 STEPS:

1. Work on an instance
2. Write down exactly what you just did
3. Generalize your steps from (2)
4. Test your steps

1-4: Devising Algorithm

5: Translate to code

6: Test Program

7: debug Program

"streams every Tuesday and Thursday at 10:15 am"

j1442 ; def func(lst1,lst2): print (lst1+lst2) return ("sleep deprived," set(lst1+lst2), "420+21 == 690", "Winnie the Pooh")