

Computer Science Team Week 11

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How was ACSL? Also, make sure to finish programming problem.

Fun coding problems

Theme: Debate!

Problem Condo

Problem Condo Li'l timmy wants to run conditionality. Given *counterplans*, the number of conditional counterplans in the 1NC, output a boolean representing whether or not li'l timmy can run conditionality.

```
def condo(  
    counterplans: int  
) bool
```

Problem Condo

Example

```
assert condo(  
    3  
) == True
```

Problem Topicality

Problem Topicality Josephine has 10 seconds left in her 1NC, and has a list of topicality arguments to read. Each topicality argument has a name, a float representing the time it will take to read, and a float representing its usefulness. Return the names of the topicality arguments Josephine should read to maximize usefulness.

```
def max_useful(  
    topicalals: list[(str, float, float)]  
) -> list[int]
```

Problem Topicality

Example

```
assert max_useful([  
    ("and/or=and", 10, 100),  
    ("substantial", 1, 10),  
    ("adopt=adopt child", 1, 1),  
) = ["and/or=and"]
```

Problem Tongue

Problem Tongue Joe the policy debater is considering surgically modifying his polygonal tongue to spread A-Z spec faster. To complete this procedure, he first needs to split his tongue into triangles. Given *vertices*, a list of points representing the shape of his tongue, output a list of three-point tuples representing the triangles that make up his tongue shape.

```
def split_tongue(  
    vertices: list[(float, float)]  
) -> [(  
    (float, float),  
    (float, float),  
    (float, float)  
) ]
```


Problem Tongue

Example

```
assert split_tongue([
    (0, 0), (0, 1), (1, 0), (1, 1)
]) == [
    ((0, 0), (0, 1), (1, 0)),
    ((1, 1), (0, 1), (1, 0)),
]
```

The End

Questions? Comments? Remarks?
Considerations? Confusions?