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The Cheeseburger you don't need – Timus 1993

https://acm.timus.ru/problem.aspx?space=1&num=1993

Difficulty: 175



Details

- A sentence in the input can be simple or complex. If the sentence is complex, then it consists of two simple sentences separated by a comma. Sometimes a comma is followed by a conjunction that is not in the brackets.
- The task is simply as to put them in the correct order. Namely, first the object, then the subject, finally the verb. And the first word in the whole sentence should begin with capital letter.
- They use the curly {}-brackets for objects, round ()-brackets for subjects and square []-brackets for verbs.

Samples

{} 1st priority() 2nd priority[] 3rd priority





Step I

• We need to read input as lower case letters and create a storage for future use .

stringInput = input().lower()
stringArray = stringInput.split(", ")
wordType = ["", "", ""]
result = ""

Step 2

- For each of the simple sentence in the input we need to go through each letters to get either { or (or [if we can't find it, we just store the word in just word.
- After getting the character { or (or [we just loop until we find the ending to the specified character } or) or] respectively and add it to the wordType array, the index of the array is the priority , so index 0 for {} ,1 for () , 2 for []

```
for simpleSentence in stringArray:
    justWord = ""
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```
while simpleSentence != "":
    word = ""
    if simpleSentence[0] in ("{", "(", "["):
        if simpleSentence[0] == "{":
            while simpleSentence[0] != "}":
            word += simpleSentence[0]
            simpleSentence = simpleSentence[1:]
            wordType[0] = word[1:]
            simpleSentence = simpleSentence[1:]
```

```
elif simpleSentence[0] == "(":
    while simpleSentence[0] != ")":
    word += simpleSentence[0]
    simpleSentence = simpleSentence[1:]
    wordType[1] = word[1:]
    simpleSentence = simpleSentence[1:]
```

```
elif simpleSentence[0] == "[":
  while simpleSentence[0] != "]":
    word += simpleSentence[0]
    simpleSentence = simpleSentence[1:]
  wordType[2] = word[1:]
  simpleSentence = simpleSentence[1:]
```

```
else:
```

while simpleSentence[0] != " ": justWord += simpleSentence[0] simpleSentence = simpleSentence[1:] simpleSentence = simpleSentence[1:]

```
if justWord != "":
```

```
result += justWord + " " + wordType[0] + " " + wordType[1] + " " + wordType[2] + " "
else:
```

```
result += justWord + wordType[0] + " " + wordType[1] + " " + wordType[2] + ", "
```

print(result[0].upper()+result[1:-2])

Step 3

- After going through each simple sentence in the input we add the to result as seen in line 40 to 43
- Finally we just print out the result when we have gone through for loop in line 7.

for simpleSentence in stringArray: justWord = ""

```
while simpleSentence != "":
    word = ""
    if simpleSentence[0] in ("{", "(", "["):
        if simpleSentence[0] == "{":
            while simpleSentence[0] != "}":
            word += simpleSentence[0]
            simpleSentence = simpleSentence[1:]
            wordType[0] = word[1:]
            simpleSentence = simpleSentence[1:]
```

```
elif simpleSentence[0] == "(":
    while simpleSentence[0] != ")":
    word += simpleSentence[0]
    simpleSentence = simpleSentence[1:]
    wordType[1] = word[1:]
    simpleSentence = simpleSentence[1:]
```

```
elif simpleSentence[0] == "[":
  while simpleSentence[0] != "]":
    word += simpleSentence[0]
    simpleSentence = simpleSentence[1:]
    wordType[2] = word[1:]
    simpleSentence = simpleSentence[1:]
```

else:

while simpleSentence[0] != " ": justWord += simpleSentence[0] simpleSentence = simpleSentence[1:] simpleSentence = simpleSentence[1:]

```
if justWord != "":
```

```
result += justWord + " " + wordType[0] + " " + wordType[1] + " " + wordType[2] + " "
else:
```

```
result += justWord + wordType[0] + " " + wordType[1] + " " + wordType[2] + ", "
```

print(result[0].upper()+result[1:-2])



Result

ID	Date	Author	Problem	Language	Judgement result	Test #	Execution time	Memory used
9036696	14:52:08 30 Sep 2020	Thanitsak Leuangsupornpong	1993. This cheeseburger you don't need	Python 3.8 x64	Accepted		0.078	444 KB

