

Python Quiz: Syntactic Sugar

Total Score: $/2^3$

Printed Name:

Quiz rules:

1. You MAY use any printed or handwritten notes.
2. You MAY NOT use a computer or any other electronic device.

Problem 1. What is the output of the following python code?

```
1 sentence = 'python_is*_weird'
2 accumulator = ''
3 for i, char in enumerate(sentence):
4     if char == '_' and sentence[i+1] == '*':
5         accumulator += '_'
6     elif char == '*':
7         accumulator += '_!'
8     else:
9         accumulator += char
10 print('accumulator=', accumulator)
```

Fraction of LLMs with correct answer: 0 / 15 = 0.00

Problem 2. What is the output of the following python code?

```
1 xss = [i for x in [4, 5, 6] if x%2 == 1 for i in range(x) if x%3== 1]
2 print('xss=', xss)
```

Fraction of LLMs with correct answer: 2 / 15 = 0.13

Problem 3. What is the output of the following python code?

```
1 sentence = "This_is_an_example_sentence_with_a_few_words_in_it."
2 words = [word.upper() for word in sentence.split('_') if len(word) > 2]
3 print('len(words)=', len(words))
```

Fraction of LLMs with correct answer: 4 / 15 = 0.27

Problem 4. What is the output of the following python code?

```
1 tweets = [  
2     { "source": "Twitter_Web_Client"  
3     , "text": "From_Donald_Trump:_Wishing_everyone_a_wonderful_holiday_&_a_happy,_healthy  
4     , "retweet_count": 28  
5     },  
6     { "source": "Twitter_Web_Client"  
7     , "text": "Trump_International_Tower_in_Chicago_ranked_6th_tallest_building_in_world_  
8     , "retweet_count": 33  
9     },  
10    { "source": "Twitter_Web_Client"  
11    , "text": "Wishing_you_and_yours_a_very_Happy_and_Bountiful_Thanksgiving!"  
12    , "retweet_count": 13  
13    },  
14    { "source": "Twitter_for_iPhone"  
15    , "text": "RT_@realDonaldTrump:_Happy_Birthday_@DonaldJTrumpJr!\nhttps://t.co/uRxyCD3I  
16    , "retweet_count": 9529  
17    },  
18    { "source": "Twitter_for_iPhone"  
19    , "text": "Happy_Birthday_@DonaldJTrumpJr!\nhttps://t.co/uRxyCD3hBz"  
20    , "retweet_count": 9529  
21    },  
22    { "source": "Twitter_for_Android"  
23    , "text": "Happy_New_Year_to_all,_including_to_my_many_enemies_and_those_who_have_fou  
24    , "retweet_count": 141853  
25    },  
26    { "source": "Twitter_for_Android"  
27    , "text": "Russians_are_playing_@CNN_and_@NBCNews_for_such_fools_-_funny_to_watch,_the  
28    , "retweet_count": 23213  
29    },  
30    { "source": "Twitter_for_iPhone"  
31    , "text": "Join_@AmerIcan32,_founded_by_Hall_of_Fame_legend_@JimBrownNFL32_on_1/19/20  
32    , "retweet_count": 7366  
33    }]  
34 tweets = [tweet for tweet in tweets if 'android' in tweets['source']]  
35 print('len(tweets)=', len(tweets))
```

Fraction of LLMs with correct answer: $3 / 15 = 0.20$

LLM Model Performance

