

Topic 08: Syntactic Sugar

1 enumerate

Note 1.

Problem 2. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1 names = ['alice', 'bob', 'charlie', 'dave', 'eve']
2 accumulator = []
3 for i, name in enumerate(names):
4     text = name + '_is_number_' + str(i)
5     accumulator.append(text)
6 print('accumulator[3] =', accumulator[3])
```

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

Problem 3. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1 names = ['alice', 'bob', 'charlie', 'dave', 'eve']
2 accumulator = []
3 for i, name in enumerate(names):
4     text = 'number_' + str(i) + '_is_' + name
5     accumulator.append(text)
6 print('accumulator[-1] =', accumulator[-1])
```

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

Problem 4. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
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 5. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

Fraction of LLMs with correct answer: 15 / 15 = 1.00

Problem 6. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1 names = ['alice', 'bob', 'charlie', 'dave', 'eve']
2 greetings = ['hello_' + name for name in names]
3 greeting = greetings[2]
4 print('greeting=', greeting)
```

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

2 List Comprehensions

Problem 7. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1  xs = [ x*x for x in range(10) ]  
2  num = xs[5]  
3  print('num=', num)
```

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

Problem 8. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1  xs = [x*x for x in range(10) if x%2]  
2  num = xs[3]  
3  print('num=', num)
```

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

Problem 9. The following code (circle one)

terminates without error throws an exception runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1  xs = [x*x for x in range(-3,3)]  
2  num = xs[5]  
3  print('num=', num)
```

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

Problem 10. The following code (circle one)

terminates without error

throws an exception

runs forever

If the code terminates without error, write the output. If the code throws an exception, state the exception.

```
1  xs = [x for x in range(-3,3) if x]
2  num = xs[3]
3  print('num=', num)
```

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

LLM Model Performance

