

# Week One Quiz

TOTAL POINTS 12

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1. Python is an example of an

- ☒ Interpreted language
- ☐ Declarative language
- ☐ Operating system language
- ☐ Data science language
- ☐ Low level language

2. Data Science is a

- ☐ Branch of statistics
  - ☐ Branch of computer science
  - ☐ Branch of artificial intelligence
  - ☒ Interdisciplinary, made up of all of the above
-

3. **Data visualization is not a part of data science.**

☐ True

☒ False

4. **Which bracketing style does Python use for tuples?**

☐ {}

☒ ()

☐ []

5. **In Python, strings are considered Mutable, and can be changed.**

☒ False

☐ True

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6. What is the result of the following code: `['a', 'b', 'c'] + [1, 2, 3]`

- ☒ `['a', 'b', 'c', 1, 2, 3]`
- ☐ `TypeError: Cannot convert list(int) to list(str)`
- ☐ `['a1', 'b2', 'c3']`
- ☐ `[['a', 'b', 'c'], [1, 2, 3]]`

7. String slicing is

- ☐ A way to make string mutable in python
- ☐ A way to reduce the size on disk of strings in python
- ☒ A way to make a substring of a string in python

8. When you create a lambda, what type is returned? E.g. `type(lambda x: x+1)` returns

- ☒ `<class 'function'>`
  - ☐ `<class 'type'>`
  - ☐ `<class 'int'>`
  - ☐ `<class 'lambda'>`
-

9. The epoch refers to

- ☐ January 1, year 0
- ☒ January 1, year 1970
- ☐ January 1, year 1980
- ☐ January 1, year 2000

10. This code, `[x**2 for x in range(10)]`, is an example of a

- ☒ List comprehension
  - ☐ Sequence comprehension
  - ☐ Tuple comprehension
  - ☐ List multiplication
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11. Given a 6x6 NumPy array `r`, which of the following options would slice the shaded elements?

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

☐

1  
2

`r[:, ::7]`

☐

1  
2

`r[0:6, ::-7]`

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```
1 r[::7]  
2
```



```
1 r.reshape(36)[::7]  
2
```

12. Given a 6x6 NumPy array `r`, which of the following options would slice the shaded elements?

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35



```
1 r[2:4,2:4]  
2
```



```
1 r[:,2,::2]  
2
```



```
1 r[[2,3],[2,3]]  
2
```



```
1 r[2::2,2::2]  
2
```

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