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Strings

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1. Which of the expressions below select the last character in the string `"coconut"`? **1 / 1 point**

- [x] `"coconut"[-1]`

  Correct
  This expression selects the last character.

- [x] `"coconut"[6]`

  Correct
  This expression selects the last character.

- [ ] `"coconut"[-6]`
- [ ] `"coconut"[7]`

2. Which of the string slices below selects the string `"dog"` from the string `"pigdog"`? **1 / 1 point**

- [x] `"pigdog"[3 : 6]`

  Correct
  This expression returns the string `"dog"` .

- [ ] `"pigdog"[4 :]`
- [x] `"pigdog"[3 :]`

  Correct
  This expression returns the string `"dog"` .

- [ ] `"pigdog"[4 : 6]`

3. Which one of the operators below can **not** be used with strings in Python? **1 / 1 point**

- ( ) `*` (multiplication)
- ( ) `+` (addition)
- ( ) `in` (membership)
- (•) `-` (subtraction)

  Correct
  String subtraction in not defined in Python.

4. What does the expression `a_str.index(sub)` do when the string `sub` is not a substring of the string `a_str`? **1 / 1 point**

- ( ) Return the value `-1`.
- ( ) Return the value `None`.
- ( ) Return the value `0`.
- (•) Raise an error.

  Correct

5. Which of the string format expressions below return the string `"abracadabra"`? **0 / 1 point**

- [x] `"{1}{2}{3}".format("abra", "cad", "abra")`

> **This should not be selected**
> This example raises an index error.

- [x] `"{}{}{}".format("abra", "cad", "abra")`

> **Correct**
> This example returns `"abracadabra"`.

- [ ] `"{0}{0}{0}".format("abra", "cad", "abra")`
- [ ] `"{0}{1}{0}".format("abra", "cad")`

6. Write a function `count_vowels(word)` that takes the string `word` as input and returns the number of occurrences of lowercase vowels (i.e. the lowercase letters `"aeiou"`) in `word`. **Hint:** Python has a built-in string method that can count the number of occurrences of a letter in a string. **1 / 1 point**

   After you have implemented `count_vowels`, run the following two statements:

```
1 print(count_vowels("aaassseefffgggiiijjjoOOkkkuuuu"))
2 print(count_vowels("aovvouOucvicIIOveeOIclOeuvvauouuvciOIsle"))
```

   The first statement should print `13` in the console. Enter the second number printed in the console in the box below.

   17

   Correct

7. Write a function `demystify(l1_string)` that takes a string composed of the characters `"l"` and `"1"` and returns the string formed by replacing each instance of `"l"` by `"a"` and each instance of `"1"` by `"b"`. **1 / 1 point**

   Once you have implemented `demystify`, test your function with calls below.

```
1 print(demystify("lllllllllllllll"))
2 print(demystify("1111111111111111111111111111111111111111"))
```

   The first call should print the string `"aaabbbababbbbbaaa"` in the console. Enter the second string printed in the console in the text box below. Do not include enclosing quotes.

   bbbababbabbaaabaaabaaabbbbbaabbabaabababbb

   Correct