Weekly challenge 4

Congratulations! You passed!

Grade received 90%
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Quiz • 50 min

Review Learning Objectives

1. What are the three types of errors you will encounter while debugging? **1 / 1 point**

- Syntax errors, exceptions, and comment errors
- Syntax errors, logic errors, and exceptions
- Exceptions, logic errors, iterative errors
- Logic errors, comment errors, and iterative errors

Correct

2. The purpose of the following code is to print the numbers from 0 to 9. Run this code, analyze its output, and then debug it. (If you want to undo your changes to the code, you can click the Reset button.) **1 / 1 point**

```
1  count = 0
2  while count < 10
3      print("number", count)
4      count = count + 1
```

Run
Reset

How can you fix the error?

- Remove the quotation marks around `number`
- Spell a variable correctly
- Change indentation
- Add a missing colon (`:`)

Correct

3. The purpose of this code is to print `"user flagged"` if the username is `"jhill"`, and otherwise to print `"user okay"`. Run this code, analyze its output, and debug it. (If you want to undo your changes to the code, you can click the Reset button.) **1 / 1 point**

```
1  def check_user(name):
2      if name == "jhill":
3          print("user flagged")
4          print("user okay")
5  check_user("jhill")
```

Run
Reset

How can you fix this error?

- Add an `else` statement before the line that prints `"user okay"`.
- Call `check_user()` before the function definition.
- Remove indentation from the line that prints `"user okay"` so that it is not part of the conditional.
- Use the `!=` operator instead of the `==` operator in the conditional header.

Correct

4. You did not assign a value to a variable before using it in a conditional. What type of error is this? **0 / 1 point**

- Index out of bounds
- Logic error
- Syntax error
- Exception

Incorrect
Review the video on strategies for debugging code.

5. If you know there is a logic error somewhere inside a function, how can you figure out the exact location? **1 / 1 point**

- Write comments in and around the function
- Place print statements in and around the function
- Delete the function from the program
- Move the function to another location

Correct

6. If you want to read a file called `"logs.txt"`, which line of code allows you to open this file for purposes of reading it and store it in a variable called `file`? **1 / 1 point**

- `with open(file, "r") as logs.txt:`
- `with open("logs.txt", file, "r"):`
- `with file.open("logs.txt", "r"):`
- `with open("logs.txt", "r") as file:`

Correct

7. What does the following code do? **1 / 1 point**

```
logins = "pwashing jhill tshah"

usernames = logins.split()
```

- Splits a string variable called `logins` into a list of strings and stores it in the variable `usernames`
- Splits a string variable called `logins` into single characters
- Removes the blank spaces that split the usernames in the variable `logins` and stores the string in the variable `usernames`
- Removes the last username in the `logins` variable and stores the string in the `usernames` variable

Correct

8. What is the process of converting data into a more readable format? **1 / 1 point**

- Slicing
- Debugging
- Splitting
- Parsing

Correct

9. After you've opened a log file as `file`, which line of code will help you read the file into a variable called `text`? **1 / 1 point**

- `text = read(file, "r")`
- `text = read(file)`
- `text.read(file)`
- `text = file.read()`

Correct

10. You want to check if a device is running a particular operating system that needs updates. Devices that contain a substring of `"i71"` in their device ID are running this operating system. First, you want to read in a log file that contains the device ID for all devices and convert it into a string. You should then parse this string into a `devices` list. Then, you should separate all device IDs that contain the substring `"i71"` into a separate list called `updates_list`. If you want to automate this through Python, what would be part of your code? Select three answers. **1 / 1 point**

- [x] An `if` statement that checks if elements in devices contain the substring `"i71"`

Correct

- [ ] A counter variable to keep track of the number of devices containing the substring `"i71"`
- [x] A `split()` function to split the string containing the information in the log file into a `devices` list

Correct

- [x] A `for` loop to iterate through all items in the `devices` list

Correct