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219114/115 Programming I

Midterm Examination Report

29 September 2020

L1.py

Do you complete it 100% according to the problem specification?

Yes

Attach screenshots showing your source code together with your run result:

The screenshot shows a Visual Studio Code editor window titled "L1.py — KU". The Explorer sidebar on the left shows a project structure with folders like "KU", "ComProgI", "Midterm", and "(Paruj) midterm_package". The file "L1.py" is open in the editor. The code in "L1.py" includes a traceback error and a function definition. The traceback error is as follows:

```
Traceback (most recent call last):
...
TypeError: The two inputs must be string
****

# your code goes here
if not isinstance(s, str) and not isinstance(c, str):
    raise TypeError("The two inputs must be string")
index = []
for i in range(len(s)):
    if s[i] == c:
        index.append(i)
return index

if __name__ == '__main__':
    import doctest
    doctest.testmod()
```

The terminal window at the bottom shows the command to run the script:

```
/usr/local/bin/python3 "/Users/tawaneiei/Desktop/KU/ComProgI/Midterm/(Paruj) midterm_package/L1.py"
```

The terminal output shows the command being executed successfully:

```
/usr/local/bin/python3 "/Users/tawaneiei/Desktop/KU/ComProgI/Midterm/(Paruj) midterm_package/L1.py"
```

If you cannot complete the problem, please explain what kind of bugs or difficulties you encounter:

=

Attach screenshots showing your source code together with the error messages below:

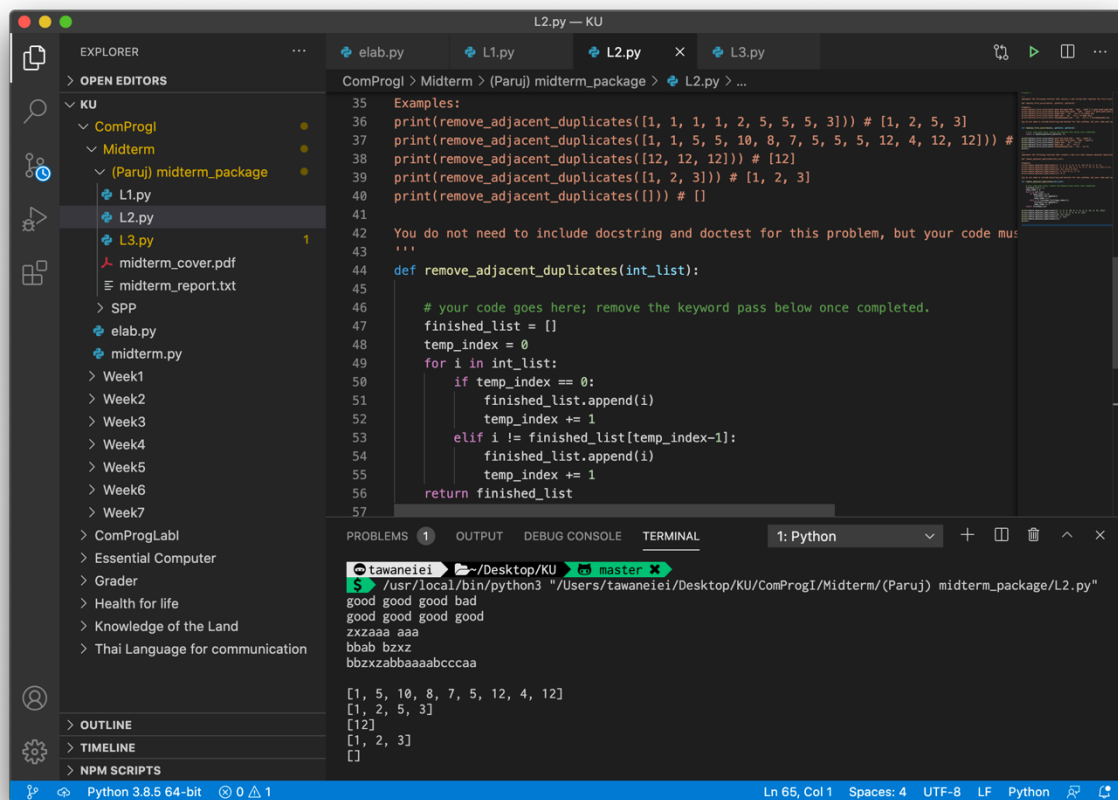
=

L2.py

Do you complete it 100% according to the problem specification?

About 99.9%

Attach screenshots showing your source code together with your run result:



The screenshot shows a VS Code editor window with the file 'L2.py' open. The Explorer sidebar on the left shows a project structure with folders 'KU', 'ComProgl', 'Midterm', and 'SPP'. The 'Midterm' folder contains a subfolder '(Paruj) midterm_package' which includes 'L1.py', 'L2.py', and 'L3.py'. The 'L2.py' file is selected and its content is visible in the editor. The code defines a function 'remove_adjacent_duplicates' and includes example calls. The terminal at the bottom shows the command to run the script and its output, which matches the expected results from the examples in the code.

```
35 Examples:
36 print(remove_adjacent_duplicates([1, 1, 1, 1, 2, 5, 5, 5, 3])) # [1, 2, 5, 3]
37 print(remove_adjacent_duplicates([1, 1, 5, 5, 10, 8, 7, 5, 5, 5, 12, 4, 12, 12])) #
38 print(remove_adjacent_duplicates([12, 12, 12])) # [12]
39 print(remove_adjacent_duplicates([1, 2, 3])) # [1, 2, 3]
40 print(remove_adjacent_duplicates([])) # []
41
42 You do not need to include docstring and doctest for this problem, but your code mus
43 ...
44 def remove_adjacent_duplicates(int_list):
45
46     # your code goes here; remove the keyword pass below once completed.
47     finished_list = []
48     temp_index = 0
49     for i in int_list:
50         if temp_index == 0:
51             finished_list.append(i)
52             temp_index += 1
53         elif i != finished_list[temp_index-1]:
54             finished_list.append(i)
55             temp_index += 1
56     return finished_list
57
```

```
~/Desktop/KU master x
$ /usr/local/bin/python3 "/Users/tawaneiei/Desktop/KU/ComProgl/Midterm/(Paruj) midterm_package/L2.py"
good good good bad
good good good good
zzzaaa aaa
bbab bxyz
bbzzabbaaaabccaa

[1, 5, 10, 8, 7, 5, 12, 4, 12]
[1, 2, 5, 3]
[12]
[1, 2, 3]
[]
```

If you cannot complete the problem, please explain what kind of bugs or difficulties you encounter:

I don't know why the last testcase in example 1 has the output like this:

```
print(replace_first_occurrence('bbaaabbbaaabcccaa', 'aa', 'zxz')) # bzxzabbbaaabcccaa
```

Attach screenshots showing your source code together with the error messages below:

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L3.py

Do you complete it 100% according to the problem specification?

Yes

Attach screenshots showing your source code together with your run result:

The screenshot shows a VS Code editor window titled 'L3.py — KU'. The Explorer sidebar on the left shows a project structure with folders 'KU', 'ComProgI', 'Midterm', and '(Paruj) midterm_package'. The file 'L3.py' is selected. The main editor displays the following Python code:

```
16 ...
17
18 def group_elements(int_list):
19
20     # your code goes here; remove the keyword pass below once completed.
21     int_added = []
22     group = []
23     for i in int_list:
24         if i not in int_added:
25             temp = []
26             for j in range(int_list.count(i)):
27                 temp.append(i)
28                 group.append(temp)
29                 int_added.append(i)
30     return group
31
32
33 print(group_elements([1, 3, 3, 4, 2, 5, 8, 5, 6, 7])) # [[1], [3, 3], [4], [2], [5],
34 print(group_elements([3, 3, 3, 3])) # [[3, 3, 3, 3]]
35 print(group_elements([3, 3, 1, 3, 3, 1])) # [[3, 3, 3, 3], [1, 1]]
36 print(group_elements([5, 3, 1, 2, 4, 10])) # [[5], [3], [1], [2], [4], [10]]
37
```

The bottom panel shows the 'TERMINAL' output for a Python script run:

```
/usr/local/bin/python3 "/Users/tawaneiei/Desktop/KU/ComProgI/Midterm/(Paruj) midterm_package/L3.py"
/Users/tawaneiei/.zshrc:source:106: no such file or directory: /Users/tawaneiei/github/powerlevel9k/powerlevel9k.zsh-theme
tawaneiei ~/Desktop/KU master x
$ /usr/local/bin/python3 "/Users/tawaneiei/Desktop/KU/ComProgI/Midterm/(Paruj) midterm_package/L3.py"
[[1], [3, 3], [4], [2], [5], [8], [6], [7]]
[[3, 3, 3, 3]]
[[3, 3, 3, 3], [1, 1]]
[[5], [3], [1], [2], [4], [10]]
tawaneiei ~/Desktop/KU master x
```

If you cannot complete the problem, please explain what kind of bugs or difficulties you encounter:

=

Attach screenshots showing your source code together with the error messages below:

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