UDACITY

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DISCUSS ON STUDENT HUB

Show Me The Data Structures

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Good job on the code. I went through it and it was well written.
Explanation is also good and you have added space complexities as well.

Great job on the assignment! Good Luck for the Nanodegree
Stay Safe and Stay Udacious

Further Readings for the curious YOU:
One of the best website for Interview Preparation
Practice Problems by Difficulty Level

Code

Code produces the correct solution to the question. There are also no runtime or compile time errors.

All code solutions run well.

Code is neat and easy-to-read. Variables, functions, and methods have straightforward names. There is enough spacing that code is easily readable.

Your code is divided into functions and it's easy to read as well. As an addition to making your code more reader friendly, you can add PEP8 style doctsrings in the functions to give the overview of what a function does just like you did in `problem_2.py`

For example:

```
"""
    This function recursively look for the extension of the files in a particular
directory and returns the list of all the files with a particular extension.

    INPUTS:
    * extension
    * filepath

   OUTPUTS:
   * list of all the filepath with the input extension\
    """
```

Code solution is not unnecessarily complex—it accomplishes the task at hand without extra iterating, algorithms, data structures, et cetera.

Testing

At least three test inputs and outputs are provided. There are at least two that test for edge cases, like null or empty inputs, or very large numbers.

Great Work adding all the required test cases in all the problems especially formatting your output in a readable format.

Explanation

There is a clear and accurate statement of efficiency in time and space. There is an explanation that specifically mentions parts of the code that contribute to the overall efficiency.

Time and Space complexities has been explained for every function and the introduction and the explanation is given very well. Awesome Work!!!!

Explanation contains some discussion of design choices made in the code. Some examples include the

choice of algorithm and data structure.

You did a good job in explaining the algorithm.

Explanation is written with proper English. Wording is clear and easy to understand. It's okay to make a couple mistakes, but thoughts should be clearly expressed overall.

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