

HOMEWORK 9

CODE QUALITY

Any submitted homework that raises any errors when I invoke Python with the submitted `main.py` file will receive no credit. As discussed in class, I will enforce the *spirit* of this rule and not the *letter* of this rule. In particular, simply deleting all code from `main.py` will result in no credit being given.

Beyond that, while you do not need to correctly answer *every* question in order to earn a grade of “satisfactory” on assignments in this course, please at least *attempt* every question, keeping in mind that some questions carry more “weight” than others; a 60% or so is still required to earn a grade of satisfactory on the homework.¹ You may be surprised how quickly things click once you start working on them!

ASSIGNMENT

This assignment should be completed as a collection of several Python source (`.py`) files, uploaded to Carmen as a **.zip** file.

- (1) Implement the Rank enumeration class in `cards.py`, using the `Suit` class as a guide.
- (2) Modify your implementation of `std_card_deck` from Homework 8 to use the enumeration types `Suit` and `Rank`.
- (3) Implement **at least one of** the “big” functions: either `play_game` or `review_game`, according to their docstring.
 - If you decide to implement only `review_game`, you may use the sample games uploaded alongside this assignment in Carmen as test cases (they were generated by my implementation of `play_game`).

¹It should be obvious which are the heavily-weighted questions, but if you are unsure please ask me.

- **Note:** the two “big” functions (`play_game` and `review_game`) are weighted heavily in this homework, for obvious reasons. If you do not make a reasonable *attempt* at an implementation for either of them, you will receive no credit for this homework.
- (4) If you only implemented one of the two big functions, comment out the call to the other one from `main.py`. Ensure there are no exceptions raised when you run `main.py` and that the behavior of your implementations look correct.

CHALLENGE ACTIVITIES

Some homeworks (such as this one) will have additional challenge activities. These activities **do not contribute to your grade**, but they are problems that I find interesting or challenging.

- (5) Implement the other “big” function (either `play_game` or `review_game`).
- (6) Information about the number of players that played the game is encoded in the file format expected by `review_game`; that is, you do not need the second parameter to that function. Change that function to take a single parameter (the file name) and compute the number of players “on the fly”.
- (7) Many of the functions in the template for this homework are solutions to last week’s homework. Replace my implementations with your own, and confirm that your program still works.

SUBMISSION

To submit this assignment, upload a **.zip** file named “lastnamefirstname.zip” (obviously replacing lastname with your own last name and firstname with your own first name) containing all of your Python files to the “Homework 9” assignment on Carmen. As always, be sure to note all group members who contributed to the assignment and what those contributions were.