

Problem of the Week #1

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Card Game

Alice and Bob are playing a Game of cards. Alice draws a card randomly from a deck of 13 cards numbers 1-13. Bob also draws a card randomly from another deck. A player wins by having a card greater than the other, otherwise, a draw would occur.

Easy Using the `random` package in Python, design a program that has two variables, `alice` and `bob` correspond to two random numbers. The program would determine the winner and their card number, otherwise, a tie is announced.

(hint) The greater or equal operator is `>=` in Python.

Intermediate Carol joins in the game and draws a card. Can you determine the winner and their card number, or if there is a tie?

(hint) The function `max()` and `min()` will return the highest and lowest number in a list of arguments.

Advanced Can you also write the ranking of the 3 players? *If a tie happens, take the higher of the 2 ranks (e.g. if the card result is 5 2 5, the ranking would be 1 3 1)*

Note If you are interested in Python, go visit this website to learn at an accelerated pace!!

<https://www.learnpython.org/en/>