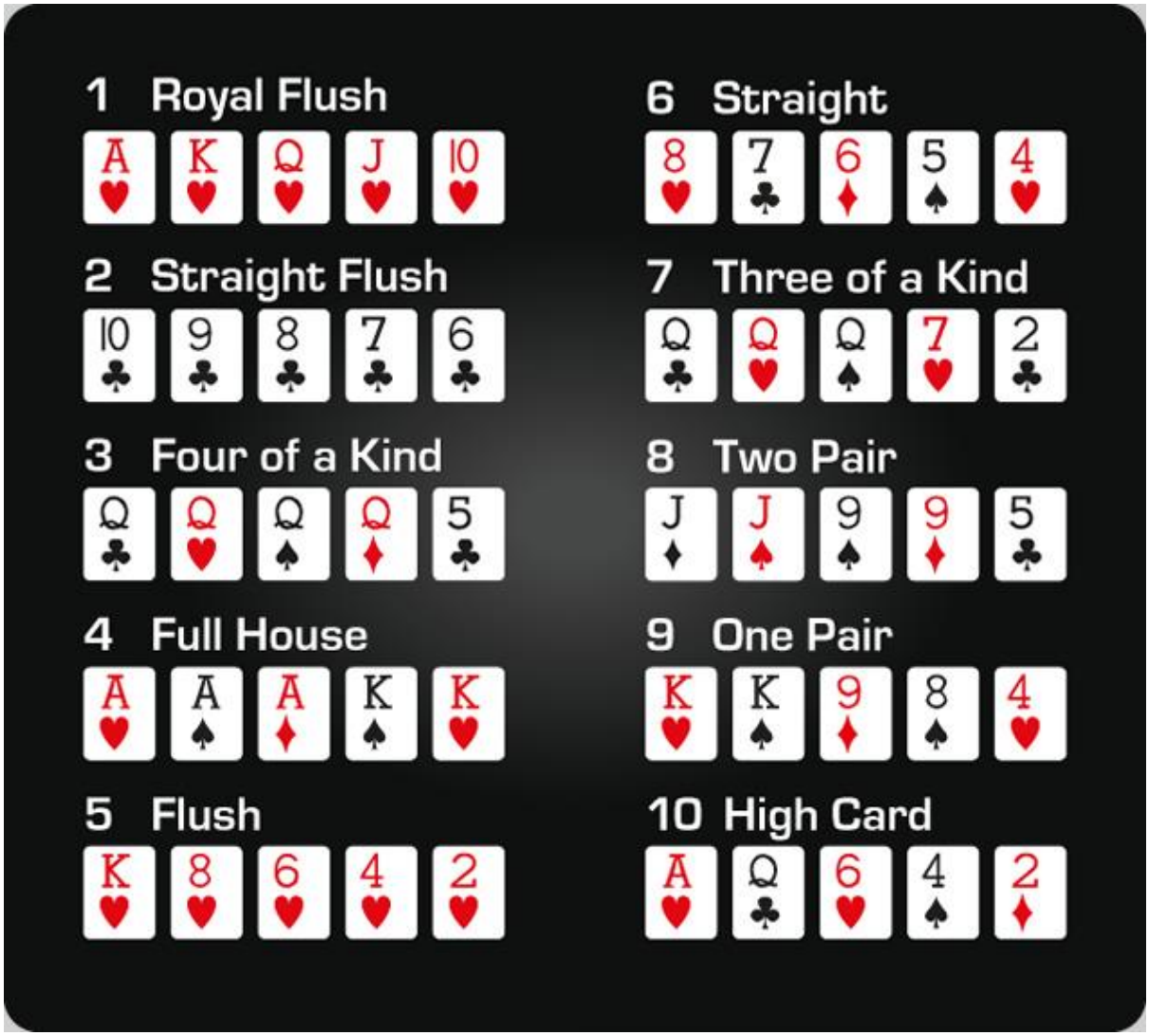
Second Assignment GEP Coding Challenge

Experts group

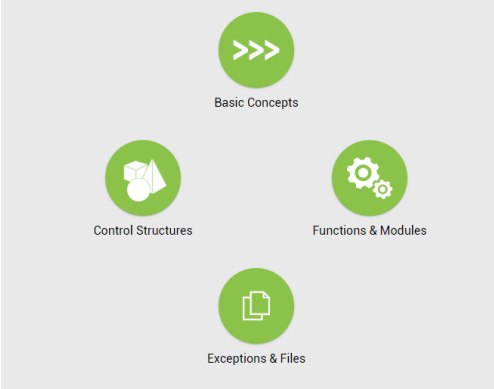
Your second task is to solve Euler problem 54 with a Python program.

Poker hands. How many hands does Player 1 win?



Beginners group

1. Finish at least “Functions & Modules” and “Exceptions & Files” in SoloLearn



2. Solve Euler Problem 2
   - Each new term in the Fibonacci sequence is generated by adding the previous two terms.
   - By starting with 1 and 2, the first 10 terms will be: 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...
   - By considering the terms in the Fibonacci sequence whose values do not exceed four million,
   - find the sum of the even-valued terms.

If you feel confident enough then give it a try. But if you need some more help go to the next page of this document.

Maybe you already solved this problem? You can continue with the next Euler problems, or give it a shot in the experts group.

Hints for Problem 2

Make one or more functions:

```
def my_function(my_argument):
      some code
      more code
      return answer
```

Define the functional blocks of your code:

Example:

- find the next Fibonacci number(s)
- extract even Fibonacci number(s)
- sum Fibonacci number(s) with a total
- print the result

or

- Find all Fibonacci numbers under a certain number MAX
- Extract all even Fibonacci numbers
- Sum all the extracted numbers
- Print the result