

# Simple exercises in python

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## 1 Basic python

The following exercises will require some more concepts than those covered in the videos (e.g., how to read files, and how to take user inputs).

- Write a program to compute the n'th number in the Fibonacci sequence (using recursion)
- Write a program to compute the binomial coefficient (using functions and recursion)
- Write a program to open a text file, and compute the frequency of occurrence of each of the characters in the english alphabet
- Write a function that does the following: given a string, and a text file as input, output the number of occurrences of the string within the file.
- Write a program to implement a 2-player tic-tac-toe game (by taking user inputs)

## 2 Numpy and matplotlib