Python Programming challenges

1. Write a python script that finds the 5 largest files inside a directory (searching recursively in subdirs)

2. Write a python script that computes the frequency of occurence of words in a text file (bonus point: plot Zipf's curve)

3. Solve the connectivity problem (see figure)

4. Implement a simulator of a Turing machine (see Roger Penrose's chapter's on Turing machines)