Programming Assignment 5 - Friendship Graph Algorithms

Test Cases

- shortestChain: 35 pts

    1. 3 pts: file sptest1.txt
       Input: aparna, kaitlin
       Result: Empty

    2. 4 pts: file subtest3.txt
       Input: kaitlin, nick
       Result: [kaitlin,nick]

    3. 7 pts: file assnsample.txt
       Input: nick, aparna
       Result: [nick,ricardo,aparna]

    4. 7 pts: file sptest4.txt
       Input: p1, p50
       Result: [p1,p49,p50] OR [p1,p51,p50]

    5. 7 pts: file subtest5.txt
       Input: p1, p10
       Result: [p1,p2,p3,p4,p5,p6,p7,p8,p9,p10]

    6. 7 pts: file subtest5.txt
       Input: p301, p198
       Result: [p301,p100,p99,p98,p198]

- cliques: 25 pts

  Note: For the non-empty results, order of names within a list does not matter.
  So any permutation of the results given here would be fine.
  (This includes a different order of lists within the top level list, as well.]

    1. 2 pt: file subtest1_2.txt
       Input: cornell
       Result: Empty

    2. 3 pt: file subtest1_2.txt
       Input: rutgers
       Result: [[kaitlin]]

    3. 5 pts: file subtest3.txt
       Input: rutgers
       Result: [[sara],[kaitlin]]

    4. 5 pts: file clqtest4.txt
       Input: rutgers
       Result: [[p1,p2,p3,p4]]

    5. 5 pt: file assnsample.txt
       Input: rutgers
       Result: [[sam,jane,bob,kaitlin],[sergei,aparna]]

    6. 5 pt: file subtest5.txt
       Input: rutgers
       Result: [[p3,p104,p4,p204],[p98,p199,p99,p299]]

- connectors: 40 pts

  Note: For the non-empty results, order of names within a list does not matter.
  So any permutation of the results for #5 and #6 given here would be fine.

  1. 4 pts: file subtest1_2.txt
     Result: Empty

  2. 4 pts: file clqtest4.txt
     Result: Empty

  3. 8 pts: file subtest3.txt
     Result: [nick]

  4. 8 pts: file subtest4.txt
     Result: [p1]

  5. 8 pts: file assnsample.txt
     Result: [jane, aparna, nick, tom, michele]

  6. 8 pts: file conntest6.txt
     Result: [p2,p3,p4]