

20.180: Assignment 3

Solutions

Media:spencers_4.txt

- The code was graded using a Protein.txt input file containing the protein "LAND" and a NC_003418.txt file containing the genome "AAAACCCCGGGGTTT".
- The correct outputs are RT=YUNGCNAAYGAY, bestScore=0, listOfBestMers=['GTTTAAAA', 'TTTTAAAA', 'GTTTAAAA', 'TTTTAAAA'].
- Point breakdown: Q1: 25 points, Q2a: 10 points, Q2b: 15 points, Q2c: 25 points, Q3: 25 points
- Sample point deductions:
 - -5 for RT being incorrect, but close
 - -5 for not getting the 4 mers in listOfBestMers but getting some of them, or for finding a few too many, with the correct ones being part of the list
 - -10 for being even further off on the listOfBestMers, for example finding 1120 instead of 4, or not finding any that are correct
 - -5 for getting bestScore wrong
 - -5 total for naming variables incorrectly