

Project 1 evaluation

When assessing the correctness of your code, Behjat and myself used the following tests:

1. Small test (easy to understand output)
 - a. Query sequence: smalltest-query.fa
 - b. Database: smalltest-db.fa
 - c. Matrix: BLOSUM80
 - d. Gap open: 7, Gap extend: 2
 - e. Min len = 1, Min % identity = 1
2. Swap test
 - a. Query sequence: swaptest.fa
 - b. Database: bigtest-query.fa
 - c. Matrix: BLOSUM80
 - d. Gap open: 7, Gap extend: 2
 - e. Min len = 100, Min % identity = 30

In this test we swapped the query with the database. A correct program would produce the same result (same alignment score and alignment)

3. Big test (used for assessing the speed of execution)
 - a. Query sequence: bigtest-query.fa
 - b. Database: bigtest-db.fa
 - c. Matrix: BLOSUM80
 - d. Gap open: 7, Gap extend: 2
 - e. Min len = 100, Min % identity = 30

The output, according to the FASTA34 program, for the bigtest test is listed in fastaout.txt.