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Module 3

LATEST SUBMISSION GRADE

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1. The value in each edit-distance matrix element depends on its neighbors: **1 / 1 point**

   Correct

2. Say we have filled in the approximate matching matrix and identified the minimum value (say, 2) in the bottom row. Now we would like to know the shape of the corresponding 2-edit alignment, i.e. we would like to know where the insertions, deletions and substitutions are. We use a procedure called: **1 / 1 point**

   Correct

3. Say the edit distance between DNA strings α and β is 407. What is the edit distance between α and βG (β concatenated with the base G)? **1 / 1 point**

   Correct

4. Say we are using dynamic programming to find approximate occurrences of P in T. About how many dynamic programming matrix elements do we have to fill in? **1 / 1 point**

   Correct

5. Local alignment is different from global alignment because: **1 / 1 point**

   Correct

6. The first law of assembly says that if a prefix of read A is similar to a suffix of read B, then... **1 / 1 point**

   Correct

7. The second law of assembly says that more coverage leads to... **1 / 1 point**

   Correct

8. In an overlap graph, the nodes of the graph correspond to **1 / 1 point**

   Correct

9. The overlap graph is a useful structure because: **1 / 1 point**

   Correct

10. Which of the following is not a reason why an overlap might contain sequence differences (i.e. might not be an exact match): **1 / 1 point**

    Correct