

## Feedback — Week 3 Quiz

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You submitted this quiz on **Sun 16 Aug 2015 12:03 AM PDT**. You got a score of **10.00** out of **10.00**.

### Question 1

Consider the following alignment:

```
TCGAC--ATT
CC---GAA-T
```

What is the score of this alignment if the match score is 1, the mismatch penalty is 1, and the indel penalty is affine with a gap opening penalty of 4 and a gap extension penalty of 1?

You entered:

-13

| Your Answer |   | Score       | Explanation |
|-------------|---|-------------|-------------|
| -13         | ✓ | 2.00        |             |
| Total       |   | 2.00 / 2.00 |             |

### Question 2

True or False: Using a Manhattan with long indel edges is quicker than using a three-level Manhattan to solve the Alignment with Affine Gap Penalties Problem.

| Your Answer                            |   | Score       | Explanation |
|--|---|-------------|-------------|
| <input type="radio"/> True             |   |             |             |
| <input checked="" type="radio"/> False | ✓ | 2.00        |             |
| Total                                  |   | 2.00 / 2.00 |             |

### Question 3

True or False: Different longest paths in an alignment graph must have the same middle node.

| Your Answer                            | Score       | Explanation |
|--|-------------|-------------|
| <input type="radio"/> True             |             |             |
| <input checked="" type="radio"/> False | ✓ 2.00      |             |
| Total                                  | 2.00 / 2.00 |             |

### Question 4

There is a unique multiple longest common subsequence of CCAATACGAC, GCCTTACGCT, and CCCTAGCGGC. What is it?

You entered:

CCTACGC

| Your Answer | Score       | Explanation |
|-------------|-------------|-------------|
| CCTACGC     | ✓ 2.00      |             |
| Total       | 2.00 / 2.00 |             |

### Question 5

True or False: Optimal pairwise alignments of three strings always can be assembled into an optimal 3-way alignment.

| Your Answer                            | Score       | Explanation |
|--|-------------|-------------|
| <input type="radio"/> True             |             |             |
| <input checked="" type="radio"/> False | ✓ 2.00      |             |
| Total                                  | 2.00 / 2.00 |             |

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