Feedback — Week 1 Quiz

Help Center

You submitted this quiz on **Sun 13 Sep 2015 11:30 PM PDT**. You got a score of **8.00** out of **10.00**. You can attempt again, if you'd like.

Question 1

Before you begin this quiz, please note the following.

1. Lecture videos contain useful information, but quizzes in this course are taken from the interactive text. Quizzes have been designed so that learners on both tracks can take them.)

2. Quiz questions are designed so that you do not need to have any programming experience in order to answer them (they can be solved with pencil-and-paper.) You should, however, be able to understand the computational approaches described in this class, which we often explain in the language of pseudocode.

True or False: The Hidden Message Problem is a well-defined computational problem.

Your Answer		Score	Explanation
◉ False	✔	2.00	
○ True			
Total		2.00 / 2.00	

Question 2

Compute *Count*(CGCGATACGTTACATACATGATAGACCGCGCGCGATCATATCGCGATTATC, CGCG).

You entered:

5

Your Answer	Score	Explanation

5	✔	2.00
Total		2.00 / 2.00

Question 3

What is the most frequent 3-mer of

TAAACGTGAGAGAAACGTGCTGATTACACTTGTTCGTGTGGTAT?

You entered:

GTG

Your Answer		Score	Explanation
GTG	✔	2.00	
Total		2.00 / 2.00	

Question 4

What is the reverse complement of GATTACA?

You entered:

TGTAATC

Your Answer		Score	Explanation
TGTAATC	✔	2.00	
Total		2.00 / 2.00	

Question 5

What is the runtime of applying the **FrequentWords** algorithm to every window of length *L* in a DNA string *Genome* in order to find *k*-mers forming (*L*, *t*)-clumps?

Your Answer		Score	Explanation
○ $O(L \cdot t \cdot k)$			
◉ $O(\|Genome\|^2)$	✖	0.00	
○ $O(k \cdot \|Genome\|^2)$			
○ $O(\|Genome\|)$			
○ $O(L^2 \cdot k \cdot \|Genome\|)$			
○ $O(L^2 \cdot t^2 \cdot k \cdot \|Genome\|)$			
○ $O(L^2 \cdot t \cdot k \cdot \|Genome\|)$			
○ $O(L^2 \cdot t)$			
Total		0.00 / 2.00	