

Feedback — Exam dna3.fasta **Please Note: No Grace Period**

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Thank you. Your submission for this exam was received.

You submitted this exam on **Tue 29 Sep 2015 11:12 PM PDT**. You got a score of **10.00** out of **10.00**.

Welcome to the final exam.

If you haven't yet read the instructions, you can do so [here](#).

Please run the following data set in the program(s) that you have written:
[dna3.fasta](#)

If you created your program(s) correctly, you will be able to answer the questions below.

Question 1

How many records are in the multi-FASTA file?

Your Answer	Score	Explanation
<input type="radio"/> 516		
<input checked="" type="radio"/> 17	1.00	
<input type="radio"/> 18		
<input type="radio"/> 127		
Total	1.00 / 1.00	

Question 2

What is the length of the longest sequence in the file?

Your Answer	Score	Explanation
<input type="radio"/> 265		
<input checked="" type="radio"/> 4773	✓ 1.00	
<input type="radio"/> 4080		
<input type="radio"/> 5006		
Total	1.00 / 1.00	

Question 3

What is the length of the shortest sequence in the file?

Your Answer	Score	Explanation
<input type="radio"/> 49		
<input type="radio"/> 12		
<input checked="" type="radio"/> 37	✓ 1.00	
<input type="radio"/> 269		
Total	1.00 / 1.00	

Question 4

What is the length of the longest ORF appearing in reading frame 2 of any of the sequences?

Your Answer	Score	Explanation
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<input type="radio"/> 806		
<input checked="" type="radio"/> 1479	✓	1.00
<input type="radio"/> 990		
<input type="radio"/> 2031		
Total		1.00 / 1.00

Question 5

What is the starting position of the longest ORF in reading frame 1 in any of the sequences? The position should indicate the character number where the ORF begins. For instance, the following ORF:

> sequence1

ATGCCCTAG

starts at position 1.

Your Answer	Score	Explanation
<input checked="" type="radio"/> 22	✓ 1.00	
<input type="radio"/> 1112		
<input type="radio"/> 3067		
<input type="radio"/> 2439		
Total		1.00 / 1.00

Question 6

What is the length of the longest ORF appearing in any sequence and in any forward reading frame?

Your Answer	Score	Explanation
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<input type="radio"/> 2031		
<input checked="" type="radio"/> 1479	✓	1.00
<input type="radio"/> 1491		
<input type="radio"/> 1206		
Total		1.00 / 1.00

Question 7

What is the length of the longest forward ORF that appears in the sequence with the identifier gi|142022655|gb|EQ086233.1|129?

Your Answer	Score	Explanation
<input checked="" type="radio"/> 885	✓	1.00
<input type="radio"/> 588		
<input type="radio"/> 795		
<input type="radio"/> 747		
Total		1.00 / 1.00

Question 8

Find the most frequently occurring repeat of length 7 in all sequences. How many times does it occur in all?

Your Answer	Score	Explanation
<input type="radio"/> 111		
<input checked="" type="radio"/> 55	✓	1.00
<input type="radio"/> 54		

☐ 126

Total

1.00 / 1.00

Question 9

Find all repeats of length 10 in the input file. Let's use Max to specify the number of copies of the most frequent repeat of length 10. How many different 10-base sequences occur Max times?

Your Answer	Score	Explanation
<input type="radio"/> 8		
<input type="radio"/> 10		
<input checked="" type="radio"/> 2	✓ 1.00	
<input type="radio"/> 3		
Total	1.00 / 1.00	

Question 10

Which one of the following repeats of length 7 has a maximum number of occurrences?

Your Answer	Score	Explanation
<input type="radio"/> GCGCGGC		
<input type="radio"/> GGCCGAA		
<input checked="" type="radio"/> CGCGGCG	✓ 1.00	
<input type="radio"/> TCGCGCT		
Total	1.00 / 1.00	

