

Feedback — Week 1 Quiz

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You submitted this quiz on **Sun 13 Sep 2015 10:56 PM PDT**. You got a score of **10.00** out of **10.00**.

Question 1

True or False: The human genome is the longest genome of any organism on Earth.

Your Answer	Score	Explanation
<input type="radio"/> True		
<input checked="" type="radio"/> False	✓ 1.00	
Total	1.00 / 1.00	

Question 2

What is a cycle that visits every node in a graph called?

Your Answer	Score	Explanation
<input type="radio"/> Erdosian		
<input checked="" type="radio"/> Hamiltonian	✓ 1.00	
<input type="radio"/> Eulerian		
<input type="radio"/> Nashlike		
<input type="radio"/> de Bruijnian		
Total	1.00 / 1.00	

Question 3

Below is the adjacency list of a graph. Which of the following is a Hamiltonian cycle in this graph? (Select all that apply.)

1 -> 2,3,5
 2 -> 4,5
 3 -> 1,2,5
 4 -> 1,3
 5 -> 2,4

Your Answer	Score	Explanation
<input type="checkbox"/> 1 -> 5 -> 4 -> 3 -> 2 -> 1	✓ 0.50	
<input type="checkbox"/> 2 -> 4 -> 3 -> 5 -> 2	✓ 0.50	
<input checked="" type="checkbox"/> 1 -> 5 -> 2 -> 4 -> 3 -> 1	✓ 0.50	
<input checked="" type="checkbox"/> 1 -> 3 -> 2 -> 5 -> 4 -> 1	✓ 0.50	
Total	2.00 / 2.00	

Question 4

Which of the following are 3-universal linear binary strings? (Select all that apply.)

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> 1011100010	✓ 0.50	
<input type="checkbox"/> 0101001101	✓ 0.50	
<input type="checkbox"/> 0111010010	✓ 0.50	
<input checked="" type="checkbox"/> 1000101110	✓ 0.50	
<input type="checkbox"/> 0011100100	✓ 0.50	
<input checked="" type="checkbox"/> 1101000111	✓ 0.50	
Total	3.00 / 3.00	

Question 5

What is the outdegree of GCG in the de Bruijn graph constructed for the following collection of 4-mers? (Hint: how can you answer this question without having to construct the de Bruijn graph?)

GCGA
CAAG
AAGA
GCCG
ACAA
AGTA
TAGG
AGTA
ACGT
AGCC
TTCG
AGTT
AGTA
CGTA
GCGC
GCGA
GGTC
GCAT
AAGC
TAGA
ACAG
TAGA
TCCT
CCCC
GCGC
ATCC
AGTA
AAGA
GCGA
CGTA

You entered:

5

Your Answer

Score

Explanation

5



3.00

Total

3.00 / 3.00

