Feedback — Week 2 Quiz

You submitted this quiz on **Sat 19 Sep 2015 1:00 PM PDT**. You got a score of **10.00** out of **10.00**.

Question 1

Give a linear string having the following 4-mer composition.

```
AAAT
AATG
ACCC
ACGC
ATAC
ATCA
ATGC
CAAA
CACC
CATA
CATC
CCAG
CCCA
CGCT
CTCA
GCAT
GCTC
TACG
TCAC
TCAT
TGCA
```

You entered:

CAAATGCATACGCTCATCACCCAG

Your Answer		Score	Explanation
CAAATGCATACGCTCATCACCCAG	✔	3.00	
Total		3.00 / 3.00	

Question 2

Below is the adjacency list of a graph. What is the minimum number of edges we must add to this graph in order to make each node balanced? (You may add duplicate edges connecting the same two nodes, but do not add new nodes.)

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

You entered:

```
4
```

Your Answer		Score	Explanation
4	✔	2.00	
Total		2.00 / 2.00	

Question 3

There is a single (linear) string with the following (3,1)-mer composition. Find it.

```
(ACC|ATA)
(ACT|ATT)
(ATA|TGA)
(ATT|TGA)
(CAC|GAT)
(CCG|TAC)
(CGA|ACT)
(CTG|AGC)
(CTG|TTC)
(GAA|CTT)
(GAT|CTG)
(GAT|CTG)
(TAC|GAT)
(TCT|AAG)
```

```
(TGA|GCT)
(TGA|TCT)
(TTC|GAA)
```

You entered:

CACCGATACTGATTCTGAAGCTT

Your Answer		Score	Explanation
CACCGATACTGATTCTGAAGCTT	✔	3.00	
Total		3.00 / 3.00	

Question 4

True or False: every Eulerian path in the de Bruijn graph constructed from a *k*-mer composition must spell out a solution to the String Reconstruction Problem.

Your Answer		Score	Explanation
⦿ True	✔	1.00	
◯ False			
Total		1.00 / 1.00	

Question 5

True or False: read breaking cannot transform reads with imperfect coverage into reads with perfect coverage.

Your Answer		Score	Explanation
◯ True			
⦿ False	✔	1.00	
Total		1.00 / 1.00	