12/27/2015 Coursera

Feedback — Week 1 Quiz

Help Center

You submitted this quiz on **Sun 27 Dec 2015 1:00 AM PST**. You got a score of **10.00** out of **10.00**.

Question 1

True or False: The fact that only 13% of genes in S. cerevisiae are duplicated does not rule out the possibility of a whole-genome duplication.

	Explanation
1.00	
1.00 / 1.00	

Question 2

True or False: In practice, the number of clusters of biological data is typically not known in advance.

Your Answer		Score	Explanation
True	~	1.00	
○ False			
Total		1.00 / 1.00	

Question 3

True or False: MaxDistance is less sensitive to outliers than the squared error distortion.

Your Answer	Score	Explanation

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True		
False	✓	1.00
Total		1.00 / 1.00

Question 4

How many ways are there to cluster 6 points into two clusters?

You entered:

31

Your Answer		Score	Explanation
31	~	2.00	
Total		2.00 / 2.00	

Question 5

True or False: The Lloyd algorithm is not guaranteed to converge for every collection of data points and every choice of initial centers.

	Explanation
Λ	.00

Question 6

Compute MaxDistance(Data, Centers) for the following Data and Centers:

Data: (2, 8), (2, 5), (6, 9), (7, 5), (5, 2)

Centers: (3, 5), (5, 4)

You entered:

5

Your Answer		Score	Explanation
5	~	1.00	
Total		1.00 / 1.00	

Question 7

Compute Distortion(Data, Centers) for the following Data and Centers:

Data: (2, 6), (4, 9), (5, 7), (6, 5), (8, 3)

Centers: (4, 5), (7, 4)

You entered:

6

Your Answer		Score	Explanation
6	~	1.00	
Total		1.00 / 1.00	

Question 8

Give the center of gravity of the following (three-dimensional) data points. Enter your answer in the form (x, y, z). (Please note the space between the coordinates.)

(17, 0, -4), (3, 14, 23), (9, 7, 16), (7, 3, 5)

You entered:

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 Your Answer
 Score
 Explanation

 (9, 6, 10)
 ✓ 2.00

 Total
 2.00 / 2.00