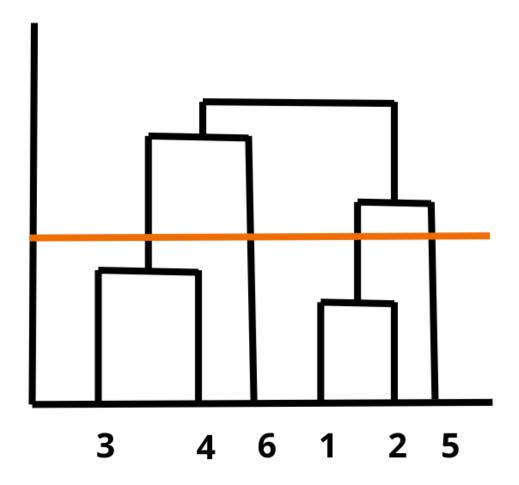
QUIZZ Total points 7/11 a little practice for next week's midterm The respondent's email (yuansh24@bu.edu) was recorded on submission of this form. ✓ Lloyd's algorithm always converges * 1/1 True False ✓ It's possible for a point assigned to a cluster by Kmeans to have a *****1/1 silhouette score that is negative. True False

X



- 0 1
- 2
- 3
- 0 4
- **5**
- 0 6
- 7

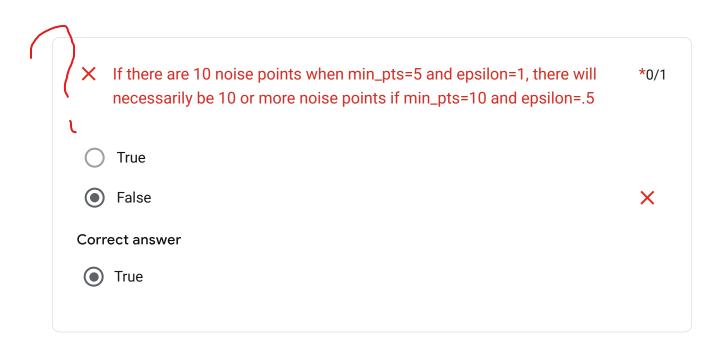
H

✓ Using Euclidean and Complete-Link Distances, what is the merging order *1/1 of the following dataset?

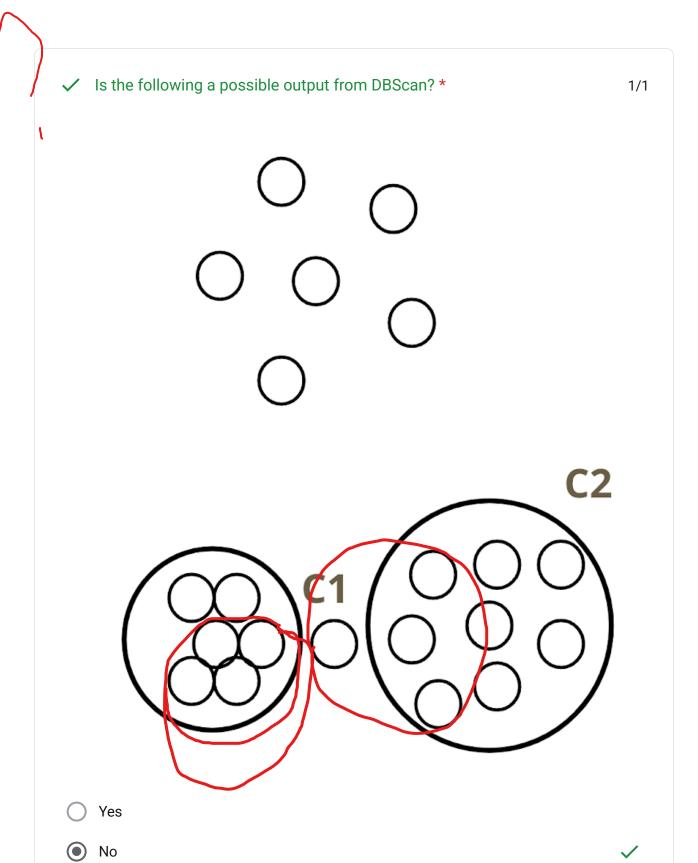
Distance Matrix

	Α	В	С	D
Α	0	√2	3	2
В	√2	0	√5	√10
С	3	√5	0	√13
D	2	√10	√13	0

- $\mathsf{AB} \to \mathsf{ABD} \to \mathsf{ABCD}$
- $\mathsf{AB} \to \mathsf{CD} \to \mathsf{ABCD}$
- $\mathsf{CD} \to \mathsf{AB} \to \mathsf{ABCD}$
- \bigcirc CD \rightarrow ACD \rightarrow ABCD







$ \uparrow $		
X	Since outliers (points very far away from the rest of the dataset) most likely don't belong to any cluster, the probabilities assigned to them by GMM are all small.	*0/1
\		
•	True	×
0	False	
Corr	rect answer	
•	False	
✓	How many parameters does GMM need to estimate? *	1/1
0	k	
0	2k	
•	3k	✓
0	k^2	
✓		*1/1
	make the data we observed as likely as possible.	
•	True	✓
	False	

✓ What is the disagreement distance between these two clustering? *

1/1

	Р	С
X ₁	1	1
X ₂	1	2
X ₃	2	1
X ₄	3	3
X ₅	3	4

3

() 4

5

×	The maximum disagreement between two clusterings for a dataset of that size is:	*0/1
0	5	
0	10	
0	15	
0	20	
0	25	
•	Impossible to tell	×
Corr	rect answer	
•	10	

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