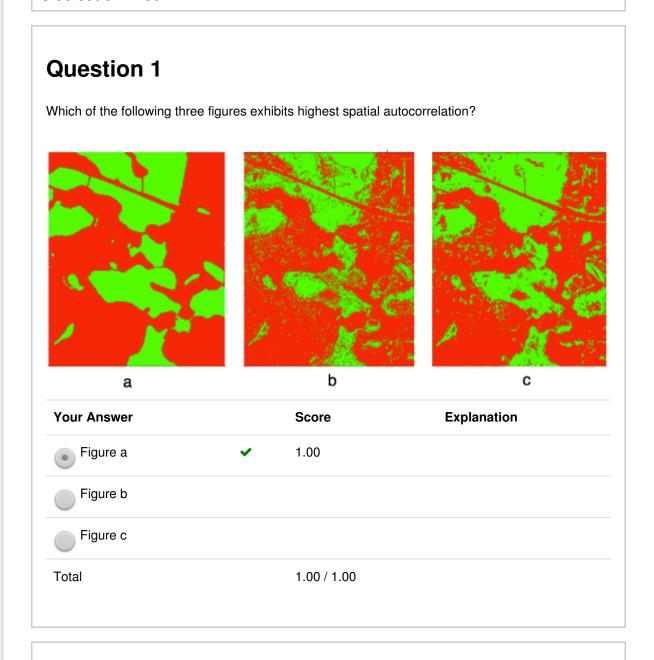
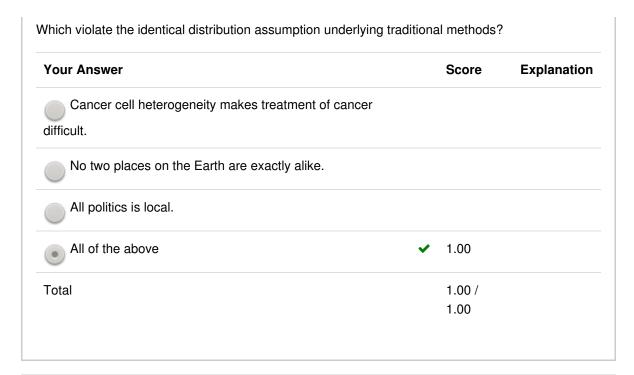
Feedback — Module 4 Technical problem set

Help

You submitted this quiz on **Thu 16 Oct 2014 6:30 PM PDT**. You got a score of **5.00** out of **11.00**.



Question 2

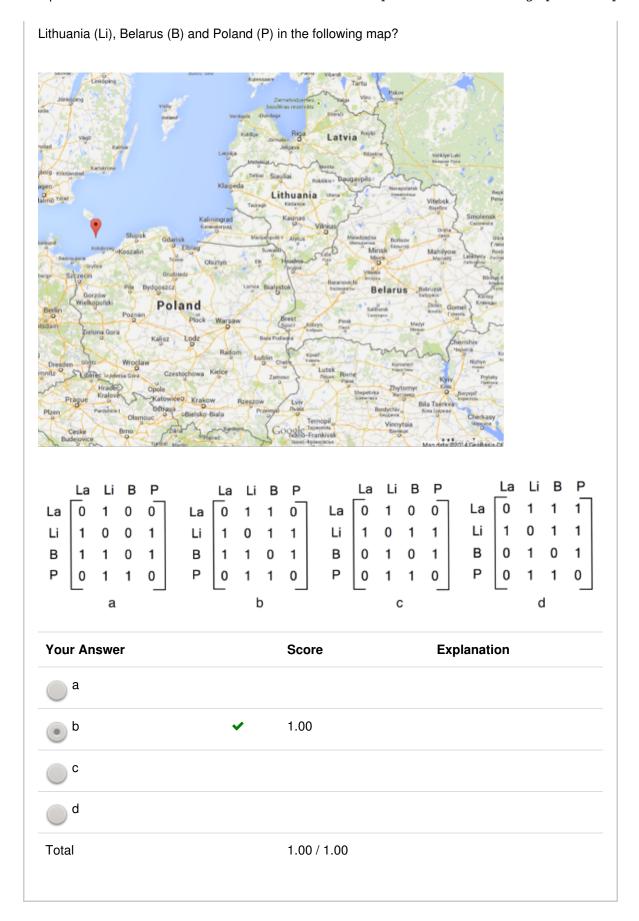


Which pair has an empty intersection, when country A (e.g., Vatican City) is completely surrounded by country B (e.g., Italy)?

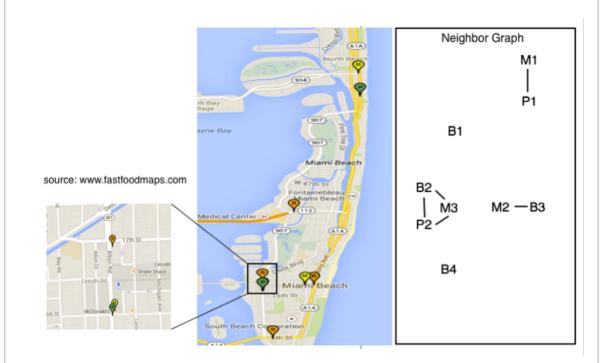
Your Answer		Score	Explanation
Boundary(B), Boundary(A)			
Exterior(B), Boundary(A)			
Exterior(B), Exterior(A)	×	0.00	
Boundary(B), Exterior(A)			
Total		0.00 / 1.00	

Question 4

Which adjacency matrix represents the touch (i.e., neighbor) relationship among Latvia (La),



Consider following map (left half) and neighbor graph (right half) of fast-food restaurants by Burger King (B), McDonald's (M), and Pizza Hut (P).

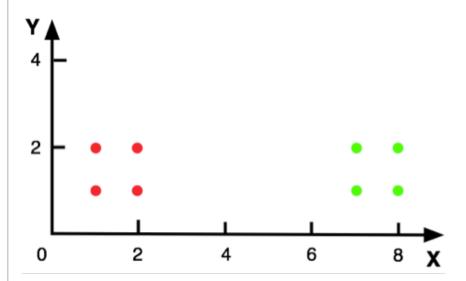


Which pair has the highest participation index (an interest measure for colocation)?

Your Answer		Score	Explanation
(Burger King, McDonald's)	×	0.00	
(Burger King, Pizza Hut)			
(Pizza Hut, McDonald's)			
Total		0.00 / 1.00	

Question 6

Consider a dataset with following points in 2-dimensional space: (1,1), (2,1), (1,2), (2,2), (7,1), (8,1), (7,2), and (8,2).

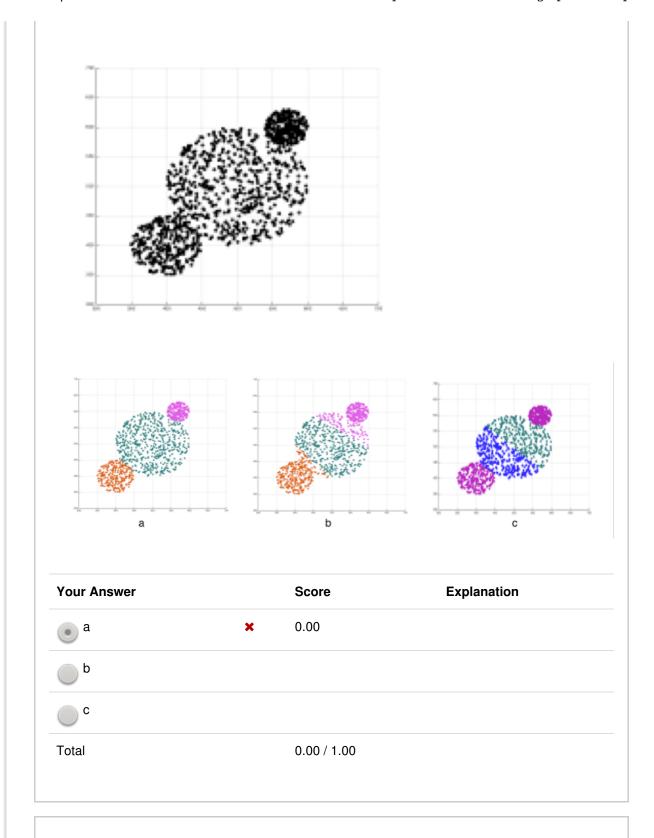


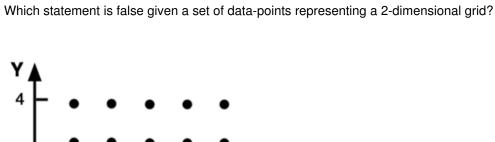
Which initial seeds will help k-means (with k=2) converge to clusters with centers of (1.5, 1.5) and (7.5, 1.5) separating red and green points?

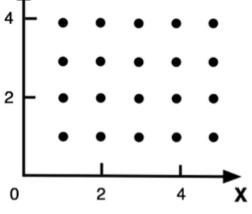
Your Answer		Score	Explanation
(5, 0) and (5, 3)			
(1.5, 1) and (8.5, 2)			
(3, 0) and (100, 100)			
(5, 0.5) and (5, 2.5)	×	0.00	
Total		0.00 / 1.00	

Question 7

Which figure represents output of k-means clustering (with k=3) for the points in the figure below? Assume each distinct cluster in k-means output has a unique color.

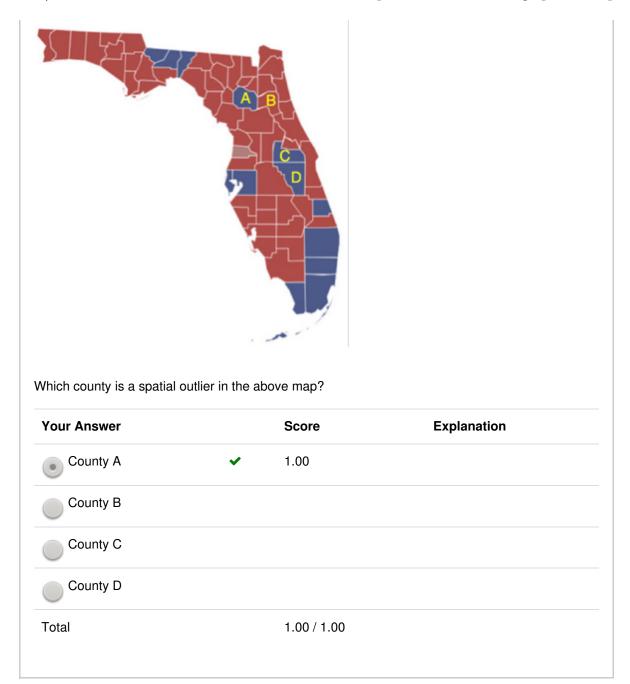




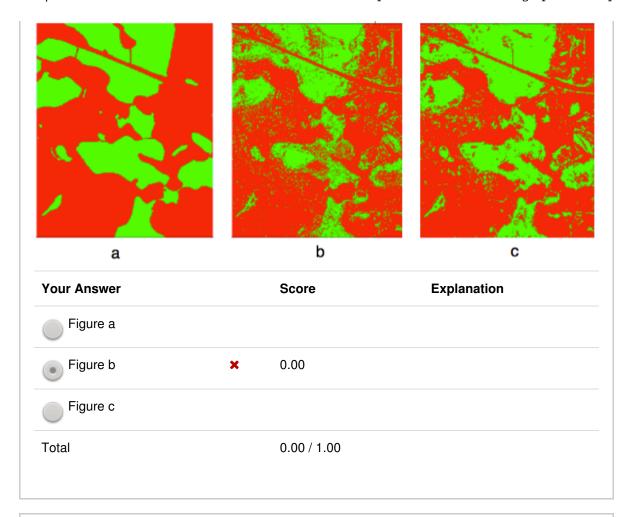


Your Answer		Score	Explanation
SatScan may output a high likelihood-ratio circle, but it will fail the statistical-significance test.	×	0.00	
K-means with $k = 2$ will find 2 clusters.			
SatScan will find a significant hotspot.			
K-means with $k = 3$ will find 3 clusters.			
Total		0.00 /	
		1.00	

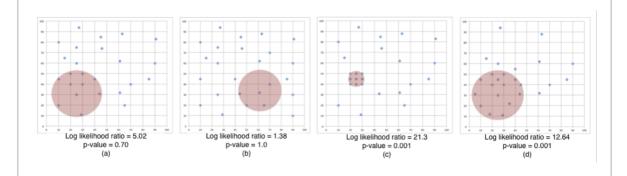
The following figure shows the 2012 United States president election results (blue vs. red) for Florida counties, e.g., A, B, C, D, etc.



Assuming map B represents ground truth, which map is more likely a results from traditional model with independent identical distribution (i.i.d.) assumption?



Consider following four datasets, each with a candidate circles with its log likelihood ratio and p-value.



Which figures best illustrate statistically-significant hotspots?

Your Answer		Score	Explanation
Figure d and Figure a			
Figure a and Figure b			
Figure c and Figure d	~	1.00	
Figure b and Figure c			
Total		1.00 / 1.00	

 $https://class.coursera.org/spatial computing \hbox{-}0...$