The student ID of the student whose paper you are grading	The student ID	of the student	whose paper	you are grading *
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24978168						
Writeup						
Readability and grammar of written report (5 points) *						
	1	2	3	4	5	
Difficult to read and/or poor grammar	0	0		0	•	Clearly written and excellent grammar
Level of written detail on comparison of R and C++ implementation and runtime (3 points) *						
	0	1		2	3	
Did not write about a comparison of the R and C++ implementation	0			0		Wrote a detailed comparison between the R and C++ implementations
R and C++ code						
Review the code written by the author. If you aren't sure of the correctness of the implementation, that's fine, just give a grade and say so in the comments.						
Correctly coded the parallelization of k-means and pairwise similarity in R/C++ (3 points) *						
	0	1		2	3	
incorrect implementation	$\bigcirc$			0	$\bigcirc$	seems correct to me

11/10/2017 Lab 3 peer grading

# Comments on implementation of parallelization or the similarity measure?

The author compares the two implementations of the R and C++ versions of similarity, but I was not able to find the R implementation, and their R code does not mention it.

Efficiency and practicality of R and C++ code (3 points) *						
		1	2	3		
c u s	neficient (e.g. repeated omputations nnecessarily, aved objects nnecessarily, etc)				very efficient and practical	
Suggestions for improving *efficiency* of R and/or C++ code *						
Looks good to me!						
Does the author satisfy the following code readability requirements? (3 points) *						
Consistent spacing before and after variable assignment and addition symbols (" = ", " + "), and after commas (", ")						
	No line of code ex	ceeds 80 chara	acters			
<b>~</b>	✓ Consistent variable naming (words always separated by one of "_" or ".")					

Incomplete code

or no .Rnw/.Rmd

file provided

Clarity of variable names (2 points) *					
0	1	2			
			variable names are helpful and unambiguous		
Quality of code comments (2 points) *					
0	1	2			
			the comments explain clearly what is being done and why		
Suggestions for improving *readability* of R code *					
Some of the variable names (e.g. good_ids and x_prime) are confusingly named, though you explain what they mean in the comments so it's fairly easy to read.					
Did the student provide all code necessary for recompiling their results AND report (note: you do not have to actually reproduce their report) (2 points) *					
0	1	2			
	omments (2 p  o  mproving *re names (e.g. goo an in the comme	omments (2 points) *  0 1  mproving *readability* of R contains the comments so it's fairly easy rovide all code necessary for do not have to actually reproducts.	omments (2 points) *  0 1 2  mproving *readability* of R code *  names (e.g. good_ids and x_prime) are confusingly nan in the comments so it's fairly easy to read.  rovide all code necessary for recompiling to do not have to actually reproduce their rep		

**Everything was** 

provided

Clarity of folder structure (2 points) *						
	0	1		2		
The folder structure was very confusing					It was clear what each file corresponded to and there were no surplus files floating around	
Optional comments on folder structure and files provided (please provide comments if you docked points for any reason)						
Figures						
Correctly produced Ben-Hur-type figures (3 points) *						
	0	1	2	3		
Did not provide a figure like Ben- Hur	0		0		Figures look correct	
If the Ben-Hur figures do not look correct, what is wrong?						
Quality of Ben-Hur Figure 3 replication figures (3 points) *						
	0	1	2	3		
Did not provide a figure like Ben- Hur	$\circ$	0	0	•	Provided clear and visually appealing figures	

# Discuss one (or more) things that you liked about the author's Ben-Hur figures \*

The author devotes one page to each figure, which makes sense since they're the centerpiece of the report.

# Discuss one (or more) things that could be improved for the author's Ben-Hur figures \*

Using dots for the empirical cdf can be a little confusing, especially since k=2 is so jumpy. I prefer lines for the empirical cdf.

# Justification of conclusions drawn from the Ben-Hur-type figures (3 points)

1

Did not write about any conclusions drawn from the figures

0

2

3

Clearly outlined interpretations of the figures and drew reasonable conclusions (e.g. found k = 3, or some other value, is the best and provides reasons why)

# Comments on the conclusions and interpretations of the Ben-Hur type figures \*

While the author reads off the appropriate conclusion from their figures, they offer little critical assessment of whether the Ben-Hur method for choosing k makes sense in this application.



Provide concluding comments

#### One or more things that you thought was well done overall \*

The author makes very clear how to find all the necessary materials to reproduce their report and even includes a readme.

#### One or more things that could be improved upon overall \*

The author did not do much to connect their findings back to the original dataset too carefully. Also, they claim k=3 minimizes the average silhouette value, but isn't the goal to maximize average silhouette?

Any other comments that y	you would like to add:
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