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**CS1674: Homework 5 - Written**

**Due:** 10/3/2016, 11:59pm 

**QUESTIONS**

1. **When matching features across two images, why does it make sense to use the ratio: [ (distance to best match) / (distance to second best match) ] as a way to judge if we have found a good match?**

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1. **How do we use clustering to compute a bag-of-words image representation? Describe the process.**

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1. **How can we find to which cluster we should assign a new feature, which was not part of the set of features used to compute the clustering?**

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1. **When is it more efficient to create an inverted file index to match a query image to other images in the database, rather than comparing the query to all database images without an index?**

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1. **Why do we need to measure both precision and recall in order to score the quality of retrieved results?**

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1. **Please write pseudocode for the computeBOWRepr function from HW5P.**

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