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Section: BC

1. Describe your approach to implementing the hash table. (separate arrays for keys and values vs one array with objects that represent pairs.)

2. If you implemented any methods other than those in the specification, describe them briefly here.

3. When you use 6 bits per pixel, how many black pixels are there in the Mona Lisa image? (These are the pixels whose ColorKey bits value equals 0.)

4. Provide a copy of the table of counts produced by your collisionTests method.

5. Provide a copy of the table of similarity values produced by your fullSimilarityTests method.

6. Examine the hashCode method of class ColorKey. What types of images might tend to cause lots of collisions relative to other images?

7. Choose 10 different images of paintings from the web. You may include the three given images among these if you wish. In your report (under item 7), provide illustrations of the 10 images, clearly numbered from 1 to 10. Identify the source of each image (i.e., URL).

Create a table with 10 rows and 10 columns that gives the results of running the cosine similarity analysis on each pair. Present the table neatly in your report.

Also in your report, indicate which pair was most similar (not including any comparisons of an image to itself).

For creating the entries in this table, use only the 6 bits-per-pixel option for the ColorKey items.