

# OLQ12

## Practice and Review

Be able to open/close a file, read it, create a map based on the input file. You will use the map to sum how many of each item you find in the file. Once you have read the file, you will print out how many times each item appeared in the file by printing out your map.

For example, if the file is

A  
B  
C  
D  
A  
D  
E

then you would create a map of type `<string, int>` and, as you read each record from the file, insert/update the map member with the same key.

Your Trick or Treater's Bucket used this same principle to track how many of each candy was collected.

The output would be

A - 2  
B - 1  
C - 1  
D - 2  
E - 1

Understand how Circle, Rectangle and Square were created by inheriting from Shape.