## Using Functions!

## Problem 0 ( yournumber % 3) Read in the following file which contains population information for cities over various years. The first line contains a city name, its size in square miles, and the number of years of population data available (all numbers in the file are integers > 0). The subsequent lines have a year and a population. Display to the screen a bar chart showing the number of people per square mile. Use one \*for each 1000 people (always round up, 1001 = \*\*). Use at least 2 functions in addition to main(). Input File: People Per Square Mile ForestGrove 5 4 1925 10000 1950 15000 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 1950 \*\*\* 2000 \*\*\*\*\*\*\*

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## Problem 2 ( yournumber % 3) Read in the following file with contains pairs of cities and the distances between the cities. The distance is given in either miles (m) or kilometers (k) (all numbers are integers > 0). Produce a new file that contains each pair of cities and the distance between them in both miles and kilometers. Display the miles and kilometers to 1 decimal place. Use at least two functions other than main(). 1 km = 0.62 miles 1 mile = 1.6 km Input File: ForestGrove Portland m 26 Portland Seattle k 278 Output file: ForestGrove Portland m 26 k 41.6 Portland Seattle m 166.8 k 278