

**Question 1:**

Filtered file to remove special characters and only examine potential identifiers. Once I had a set of potential identifiers I used a set difference function with my potential set and the reserved set to have a finalized identifier set.

**Question 2:**

Read in countries and counts from file and put into a map. Iterated through map and kept updated max count. Outputted country with max count.

**Question 3:**

On insertDuble function about 1 out of every 10 tests runs into an infinite loop, I tried many different ways to fix this issue based on the suggestions by the professor in piazza. Using table size as 10009 causes it to run as intended.

**Question 4:**

For the hashFunction I read in the key as a string and used the ascii values to determine an integer value. I then returned that integer mod MAP\_MAX\_SIZE to keep it within bounds. I also wrote it to have the values within the same row in order before reading in piazza that we could just append them.