# Dictionary

Create an English-to-Spanish, Spanish-to-English dictionary, using the words in the file spanglish.txt. Output both dictionaries to the file dictionaryOutput.txt.

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| Input (partial) | Output (partial) |
| holiday fiesta holiday vacaciones party fiesta celebration fiesta feast fiesta father padre priest padre | ENGLISH TO SPANISH   celebration [fiesta]  computer [computadora, ordenador]  father [padre]  feast [fiesta]  good [bueno]  holiday [fiesta, vacaciones]  party [fiesta]  priest [padre]  vacation [vacaciones]  SPANISH TO ENGLISH  bueno [good]  computadora [computer]  fiesta [celebration, feast, holiday, party]  padre [father, priest]  vacaciones [holiday, vacation] |

It goes without saying that you should study the input and output very carefully.

1. How is the input file organized?

2. How is the output file organized?

3. Which parts of the output are alphabetized?

4. This is a lab in which choosing the correct data structure is very important. What data structures would be useful?

5. What algorithms do you need? Do some serious planning.

# Extension

Write a class DictionaryTranslator that accesses dictionaryOutput.txt. Ask the user if s/he wants to translate from English to Spanish or from Spanish to English. Then ask what word to look up. If the word is not in our dictionary, apologize. Otherwise give all possible translations, and if the user knows a translation that is not in the dictionary, let him/her add that translation to our list. Also allow for an administrative update (password protected?) specifically designed to add, remove, or modify entries in the dictionary.