## Mapper

```
class MAPPER
       method MAP(doc d)
              for all word w in doc d do
                     EMIT(word w, count 1)
Reducer
class REDUCER
       method INITIALIZE()
              DICT <- new DICTIONARY
              EXTRA DICT <- new DICTIONARY
              read the file, that contains results of previous four-year window, line by line
              for all line in file do
                     get word, avg and std dev by splitting the tab-separated line
                     EXTRA DICT[word] <- avg + 2*std dev
       method REDUCE(word w, counts [c1, c2, ......])
              sum <- 0
              for all count c in counts [c1, c2, ......] do
                     sum <- sum + c
              DICT[w] <- sum
       method FIND_FREQ_WORD()
              for all word w in DICT do
                     if w in EXTRA DICT and DICT[w] > EXTRA DICT[w]
                            EMIT(word w, count DICT[w], value EXTRA_DICT[w])
```