Lab Dictionary Q2 - Common Words

File 1	File 2	File 3	File 4
Hi	Hi	Hi	Hi
Bye	Tiger	Bye	Urbana
Tiger	Giraffe	Tiger	Tiger
Hi	Hi	Hi	Hi
Hi	Monkey	Kuwait	Ticket
Tiger	Bear	Philippines	Monopoly

Goal: given a list of files and a number n, find all words that appear in every file at least n times.

Ex: n = 1 -> Hi, Tiger

n = 2 -> Hi

Member Variables and Starter Code

`vector<map<string, unsigned int> > file_word_maps`
- Each map associates a word in that file to the number of times it has been seen in that file.

`map<string, unsigned int> common`
- maps a word to the number of documents that word appears in

`vector<string> CommonWords::file_to_vector(const string  &filename)const`
- Takes a filename and transforms it to a vector of all words in that file.

Your Tasks

`void init_file_word_maps(const vector<string> &filenames)`
- Initializes file_word_maps.

`void init_common()` - Initializes common.

`vector<string > get_common_words`
– Returns a vector of strings. The vector contains all words that appear in each file $\geq n$ times.