#include <fstream>

#include <iostream>

#include <set>

#include <map>

#define fi first

#define se second

#define sz(a) ((int)a.size())

using namespace std;

set<string> stop\_words;

map<string,int> count;

map<int,string> reversed\_count;

bool isLetter( char ch ){

if( ( ch>='a' && ch<='z' ) || ( ch>='A' && ch<='Z' ) )

return 1;

return 0;

}

char lower( char ch){

if( ch>='A' && ch<='Z' )

return ch-'A'+'a';

return ch;

}

string fix( string s ){

string rev;

for( int i=0 ; i<sz(s) ; i++ )

if( isLetter(s[i]) )

rev+=lower(s[i]);

return rev;

}

int main(){

fstream words,input;

words.open("stopwords.txt");

input.open("input.txt");

string s;

while( words >> s )

stop\_words.insert(s);

int cnt=0;

while( input >> s ){

s=fix(s);

if( sz(s) && stop\_words.find(s)!=stop\_words.end() )

count[s]++;

cnt++;

}

for( map<string,int>::iterator it=count.begin() ; it!=count.end() ; it++ )

reversed\_count[it->se]=it->fi;

int i=0;

map<int,string>::iterator it=reversed\_count.end();

it--;

cout << "There are " << cnt << " words in the input file:" << endl;

for( ; 22 ; it--,i++ ){

cout << it->se << " --> " << it->fi << " --> %" << 100.0\*((double)it->fi/(double)cnt) << endl;

if( it==reversed\_count.begin() )

break;

}

return 0;

}