

Lab 4.5.3 Text manipulation: stop word elimination

Objectives

Familiarize the student with:

- reading data in a specified format.

Scenario

A common practice in search engines is to remove very common words – that add little value – from a document before further processing.

These words are known as "stop words" and include words like "a", "the", "or", etc.

Write a program that will read two lines of text. The first line will consist of comma-separated stop words and the second line is text to be processed. Your program should remove all stop words from the text to be processed.

Your program should assume lower case for stop words and ignore the case in the processed words.

```
#include <string>
#include <iostream>

int main()
{
    std::string stop_words;
    std::getline(std::cin, sentence);

    std::string sentence;
    std::getline(std::cin, sentence);
    // remove stop_words from sentence here

    std::cout << sentence << "\n";
}
```

Example input

```
has,no,this
This sentence has no stop words
```

Example output

```
sentence stop words
```

Example input

```
a,has
Mary has a little lamb
```

Example output

```
Mary little lamb
```