

# Cambly Programming Exercise

Thanks for your interest in software engineering at Cambly! We ask applicants to complete a short programming exercise before a phone interview. You can complete the exercise in your favorite programming language. Feel free to use any builtin libraries, but please don't use any 3rd-party libraries. When you've finished the exercise, send us the source code along with your program's output given the sample input below.

Given a string of text, write a program that prints a list of unique words contained in the string along with the number of occurrences of each word in the string. The list should be sorted in descending order by frequency, and ascending order alphabetically when multiple words occur with the same frequency.

For example, given the input ...

```
"This is a test. That is not a test. Test"
```

... the expected output could be ...

```
test 3
a 2
is 2
not 1
that 1
this 1
```

After you have a working program, you should run it on this input, and send us the result:

```
"From the moment the first immigrants arrived on these shores, generations of parents have worked hard and sacrificed whatever is necessary so that their children could have the same chances they had; or the chances they never had. Because while we could never ensure that our children would be rich or successful; while we could never be positive that they would do better than their parents, America is about making it possible to give them the chance. To give every child the opportunity to try. Education is still the foundation of this opportunity. And the most basic building block that holds that foundation together is still reading. At the dawn of the 21st century, in a world where knowledge truly is power and literacy is the skill that unlocks the gates of opportunity and success, we all have a responsibility as parents and librarians, educators and citizens, to instill in our children a love of reading so that we can give them the chance to fulfill their dreams."
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We look forward to hearing from you. Good luck!