

Homework1

Programming Software Systems 2

January 28, 2021

Deadline is February 10, 2021, 23:59 (MSK)

The input is the text (in the form of one line up to 5000 characters). It consists of several sentences (separated by dots). Your task is to:

- Write a program that reads the text from the file,
- Write a function that breaks the input text into sentences,
- Write a function that returns all sentences that contain the word from the input and make the word UPPERCASE in sentences.

Requirements:

- To read the data from the file *in.txt*. First comes the text line, then comes the line that indicates the number of words, and then in each line comes the query word.
- To write the result in the file *out.txt* file. For each word print the number of found sentences and these sentences with uppercased word.
- The text to the 'search' function should be given as a set of sentences.
- Try to avoid unnecessary copy of sentences and write effective code.
- There should be Readme.md file in the root folder with the project description, how to run the code, all dependencies installation and versions, maybe other instructions.
- Use C++
- If something was not mentioned - it means on your choice.

Sample input data:	Sample output data:
<p>Lorem Ipsum is simply a dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.</p> <p>2 dummy release</p>	<p>2 Lorem Ipsum is simply a DUMMY text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard DUMMY text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.</p> <p>1 It was popularised in the 1960s with the RELEASE of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.</p>

Some suggestions:

Ideally - all results should be in the PullRequest(PR) in a separate branch in the private repository on github. In such case put only the link to the repo in the moodle. (Do not forget to add TA to the repo. Mike's login is **l1va**, Shokhista's - **ergashevashokhista**)

Merge PR only after we approve it.

Or you can upload zip archive to moodle if you can't manage with git.

Do not leave the task for the last day. You can meet difficulties that you will not manage to solve in 30 minutes.