**CSS 220 Advanced Algorithms**

**Week 9. Practice**

**Assignment 7**

**Task.** **[100 points]** **Indexing a book.**

Write a program that reads in a text file from standard input and compiles an alphabetical index of which words appear on which lines, as in the following input. Ignore case and punctuation.

Use either R-way tries or Ternary search tries algorithms for implementation.

**Ex.**

|  |  |
| --- | --- |
| **Input.txt** | **Output.txt** |
| It was the best of times,  it was the worst of times,  it was the age of wisdom,  it was the age of foolishness, | age 3-4  best 1  foolishness 4  it 1-4  of 1-4  the 1-4  times 1-2  was 1-4  wisdom 4  worst 2 |

**Assignment Submission**

Assignments must be submitted in **Hackerrank.com** website platform.

Submitted assignments **by email** and **after deadline** are **NOT** accepted. Submit before deadline only in Hackerrank.com.

Link to the assignment: <https://hr.gs/assignment7-tries>

***Important:*** *Once you successfully do the task, submit it through the link above. In hackerrank.com you will be given only 3 hours for assignment submission. And you will have only one attempt.*

**Resources**

Lecture and Practice materials are available on Moodle.

Link to join course on Moodle: <https://moodle.sdu.edu.kz/course/view.php?id=394>