Instructions:

* Carefully explain the way you have solved the problems.
* On missing information make and document sound assumptions
* C++ programs do not have to be complete or “pass compilation.” You can just write code snippets. It is required that the snippets cover all the important parts of the solution.
* For Data Structures (DS) you can only use a stack complying with LIFO or a queue. Your data structures can only be implemented via Dynamic Array (DA) that is not a vector ADT or via a Linked List (LL). You should choose the implementation method (DA / LL) that makes the most sense and carefully justify your selection. You can assume that the strings, such as 𝑆, 𝑇, etc., are stored in individual files.

Questions:

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