

1. Implement binary search on your Doubly Linked List class from offline 1.
 - a. Only C++ and Java are allowed
 - b. Your code needs to be able to handle all the datatypes including classes. Use C++ templates / Java generics to achieve this objective.
 - c. You will need to take input from a file. The input format is described in the next section.
 - d. You cannot use built-in DoublyLinked List or Binary Search.
2. Input and output format:
 - a. The first line of the file will describe how many inputs there are in the file. Let us call this value k.
 - b. In each of the following k groups of three lines, the first line will contain the number of elements, and the second one will have the elements themselves. And the third one will Look at the following table:

Input	Output
2 5 1 3 5 6 7 3 4 2 9 10 15 10	1 2
2 5 1.1 3.67 5.25 6.9 7.0 3.67 4 2 9 10 15 10.2	1 -1

- c. The output will print the positions for each input if it exists, otherwise -1.
3. Note that the spec might be updated a few times until the submission deadline with additional details and modifications. Check ELMS from time to time if there are any additional updates/requirements.
4. Submission requirements:
 - a. Take all the codes(only codes) and put them in a folder with your roll number as the name of the folder.
 - b. Compress it in .zip format and submit it.