Visual Programming and Data Structures

Assignment 2 Part B

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Question

Describe the functionality and efficiency of the Java Collection Framework objects HashMap and LinkedList. You may wish to refer to the following:

* Interfaces, Abstract/Concrete Classes
* Constructors
* Key methods
* Advantages / Disadvantages of each

The work load required to searching for an element within a listi s directly proportional to the size of the list. The hash map list into multiple mini-lists AND IF you can quickly tell in which mini-list this element may reside, then the time-complexity for look-up can be reduced greatly. That is what hashMap does, it builds an array of these mini-lists.

Explain where its used

Describe how it works

Advantages/Disadvantages