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Store Data of Students in File
(Primary Index Using Binary Search and Hashing Techniques)

Summary:

This program for storing data about students, where each student has the (ID, Name and Address), then to search inside the data file you will use the ID field as a primary index.

Implementation 1:

• The **search** is done by using **primary index** which is implemented using **binary search tree**.
• **Data file organization** is **(variable length record)**: length indicator records, delimited fields.

Implementation 2:

• The **search** is done by using the **hashing technique**.
• **Address space** N= 997, **Bucket size** = 2.
• **Hashing method**: *Chaining with separate overflow area* technique to handle collision, the **hash function** is the *multiplication method.*
• **Data file organization** is **fixed record length, delimited fields**.