

ADVANCED DATASTRUCTURES LAB MANUAL

EXERCISE-1:

AIM: To implement functions of Dictionary using Hashing (Division method, Multiplication method)

DESCRIPTION:-

Dictionary is a collection of data elements uniquely identified by a field called key.

- A dictionary supports the operations of search,insert and delete.
- A dictionary supports both sequential and random access.
- These are useful in implementing symbol tables,text retrieval systems,data base systems,etc.

Hash tables: "Hash table" is a data structure in which keys are mapped to array positions by a hash function.

Hash function: A "Hash function" is simply a mathematical formula which when applied to a key,produce an integer which can be used as an index for the key in the hash table.

Hashing:The process of mapping the keys to appropriate locations(or indexes) in a hash table is called "Hashing"

There are different types of hash functions to calculate the hash value.They are

- 1.Division method
- 2.Multiplication method
- 5.Universal hashing

Division method:

It is the most simple method of hashing an integer x.This method divides x by M and then uses the remainder that is obtained.The hash function can be given as

$$H(x)=x \bmod M$$

The division method is good for any value of M because it requires only a single division method or operation .It works very fast.But care must be taken to select a suitable value for M.

- Generally it is best to choose M to be a prime number .
- And M should also be not too close to the exact powers of 2.

Advanced Datastructures Manual

RD Boyd



Advanced Datastructures Manual:

The Enigmatic Realm of **Advanced Datastructures Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Advanced Datastructures Manual** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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