Fundamentals of
Data Structures using C

Hashing

B.Bhuvaneswaran, AP (SG) / CSE

9791519152

bhuvaneswaran@rajalakshmi.edu.in

RAJALAKSHMI
ENGINEERING COLLEGE

Introduction

- The implementation of hash tables is frequently called hashing.
- Hashing is a technique used for performing insertions, deletions, and finds in constant average time.

Types of Hashing

- Static hashing
- Dynamic hashing

Static Hashing

- In static hashing, the hash function maps search key values to a fixed set of locations.

Dynamic Hashing

- In dynamic hashing, the hash table can grow to handle more items.
- The associated hash function must change as the table grows.

Hash Table

- A hash table is a data structure, which is implemented by a hash function and used for searching elements in quick time.
- In a hash table, hash keys act as the addresses of the elements.

Applications of Hash Tables

- Compilers
- Graph theory problem
- Online spelling checkers etc.
- Database systems
- Symbol tables
- Data dictionaries
- Network processing algorithms
- Browse caches

Queries?

Thank You!