

Coding Challenge: Employee Management System Using LinkedList

You are required to implement a **Employee Management System** using **Java's LinkedList**, supporting full **CRUD** functionality.

Employees must be stored inside a **LinkedList**, and all operations should happen **based on Employee ID**.



Problem Description

Design a program that performs the following operations using a **LinkedList<Employee>**:

1. Register Employee

Add a new employee with the following fields:

- Employee Name
- Employee ID
- Employee Gender
- Employee Salary

If an employee with the same ID already exists, ignore the insertion.

2. Delete Employee

Delete an employee using their **Employee ID**.

If no employee exists with that ID, ignore the operation.

3. Search Employee

Given an Employee ID, return the employee's complete details.

If no employee is found, return "**Employee Not Found**".

4. Update Employee

Update an employee's:

- Name
- Gender
- Salary

using their Employee ID.

If the employee doesn't exist, ignore the update.

5. Display All Employees

Return a list of all employees in insertion order.



Input Format (LeetCode Style)

Input consists of multiple operations:

```
REGISTER name id gender salary  
DELETE id  
SEARCH id  
UPDATE id name gender salary  
DISPLAY  
END
```

- Processing stops when the command **END** appears.
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Output Format

Print output **only** for **SEARCH** and **DISPLAY**.

 **Sample Input**

```
REGISTER Amar 101 M 75000
REGISTER Riya 102 F 68000
REGISTER John 103 M 82000
SEARCH 102
UPDATE 102 Priya F 70000
SEARCH 102
DELETE 101
DISPLAY
END
```

 **Sample Output**

```
Employee Found: Riya 102 F 68000
Employee Updated: Priya 102 F 70000
Employee List:
Priya 102 F 70000
John 103 M 82000
```