Exercise 1:

Exercise 2:

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Exercise 3:

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Exercise 4:

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Exercise 5:
using System;
public class Task
  public int TaskId;
  public string TaskName;
  public string Status;
  public Task Next;
  public Task(int id, string name, string status)
    TaskId = id;
    TaskName = name;
    Status = status;
    Next = null;
  }
  public override string ToString() => $"ID: {TaskId}, Name: {TaskName}, Status: {Status}";
}
public class TaskLinkedList
  private Task head;
  public void AddTask(Task task)
    if (head == null)
      head = task;
    }
    else
      Task temp = head;
      while (temp.Next != null)
        temp = temp.Next;
      temp.Next = task;
    }
  }
  public Task SearchTask(int id)
    Task temp = head;
    while (temp != null)
      if (temp.TaskId == id)
        return temp;
      temp = temp.Next;
    }
    return null;
  }
  public void TraverseTasks()
    Task temp = head;
    while (temp != null)
    {
```

```
Console.WriteLine(temp);
      temp = temp.Next;
    }
  }
  public void DeleteTask(int id)
    if (head == null) return;
    if (head.TaskId == id)
      head = head.Next;
      return;
    }
    Task temp = head;
    while (temp.Next != null && temp.Next.TaskId != id)
      temp = temp.Next;
    if (temp.Next != null)
      temp.Next = temp.Next.Next;
 }
}
public class Program
  public static void Main()
    TaskLinkedList list = new();
    list.AddTask(new Task(1, "Design UI", "Pending"));
    list.AddTask(new Task(2, "Fix Bugs", "In Progress"));
    list.TraverseTasks();
    Console.WriteLine("After Deleting Task 1:");
    list.DeleteTask(1);
    list.TraverseTasks();
 }
}
```

Output

```
ID: 1, Name: Design UI, Status: Pending
ID: 2, Name: Fix Bugs, Status: In Progress
After Deleting Task 1:
ID: 2, Name: Fix Bugs, Status: In Progress
=== Code Execution Successful ===
```

Exercise 6:

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Exercise 7:

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○ 🔅 🚓 Share Run Output
                                                           Recursive Forecast: 1610.51
Memoized Forecast: 1610.51
```