

# Lecture 4.23

## 4.3 Basic operations on singly linked list

# Agenda

- - Topic introduction
- - Core concepts
- - Code examples
- - Summary

# Detailed Concept 1

- Detailed explanation for 4.3 Basic operations on singly linked list part 1
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 2

- Detailed explanation for 4.3 Basic operations on singly linked list part 2
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 3

- Detailed explanation for 4.3 Basic operations on singly linked list part 3
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 4

- Detailed explanation for 4.3 Basic operations on singly linked list part 4
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 5

- Detailed explanation for 4.3 Basic operations on singly linked list part 5
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 6

- Detailed explanation for 4.3 Basic operations on singly linked list part 6
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 7

- Detailed explanation for 4.3 Basic operations on singly linked list part 7
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Detailed Concept 8

- Detailed explanation for 4.3 Basic operations on singly linked list part 8
- - Memory management aspects
- - Time complexity considerations

```
class Node:  
    def __init__(self, data):  
        self.data = data  
        self.next = None
```

# Summary

- - Recapped 4.3 Basic operations on singly linked list
- - Discussed node structure and time complexities

# Next Lecture Preview

- In the next lecture, we will dive deeper into related operations.