

ADDS Prac 7 Design

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UML Diagram

Node	LinkedList
- data: int - next: Node*	- head: Node*
+ Node() + getData(): int + getPtr(): Node* + setData(int): void + setPtr(Node*): void	+ LinkedList() + LinkedList(int*,int) + addFront(int): void + addEnd(int): void + addAtPosition(int,int): void + search(int): int + deleteFront(): void + deleteEnd(): void + deletePosition(int): void + getItem(int): int + printItems(): void + ~LinkedList()

Description

Node

Contains information on the data and a connections to the next node.

LinkedList

Handles the connections of nodes and creation and destruction of nodes to form a list.

Main

Takes an input of up to 100 numbers to form a linked list, and a function indicator plus two parameters. It then creates a linked list and performs the function on that list, outputting the result of the function.

Testing

Input: 1 2 3 4 5 AP 8 8

Expected Output: 1 2 3 4 5 8

Input: 0 9 8 -2 21 88 AE 99 0

Expected Output: 0 9 8 -2 21 88 99

Input: 0 1 2 DP -7 0

Expected Output: outside range
0 1 2