Class Demo Singly Linked List

0.1.0

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

Chapter 3

Class Documentation

3.1 Node Class Reference

Collaboration diagram for Node:

Public Member Functions

- Node (int d)

Public Attributes

- int data
- Node * nextNode

3.1.1 Detailed Description

Definition at line 12 of file main.cpp.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Node()

```
Node::Node (
            int d )  [inline]
```

Constructor

Definition at line 20 of file main.cpp.

```
20                  {
21          data = d;
22          nextNode = NULL;
23      }
```

3.1.3 Member Data Documentation

3.1.3.1 data

```
int Node::data
```

Definition at line 14 of file main.cpp.

3.1.3.2 nextNode

```
Node* Node::nextNode
```

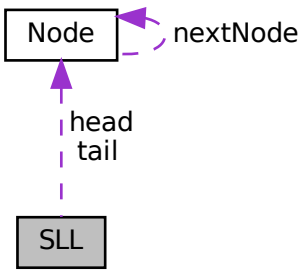
Definition at line 15 of file main.cpp.

The documentation for this class was generated from the following file:

- /home/drseth/CPTR227/20210208-SLLClassDemo/src/main.cpp

3.2 SLL Class Reference

Collaboration diagram for SLL:



Public Member Functions

- SLL ()
- bool addToTail (int d)

Public Attributes

- Node * head
- Node * tail
- int n

3.2.1 Detailed Description

Definition at line 26 of file main.cpp.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 SLL()

```
SLL::SLL ( )  [inline]
```

Constructor

Definition at line 35 of file main.cpp.

```
35          {
36         head = NULL;
37         tail = NULL;
38         n = 0;
39     }
```

3.2.3 Member Function Documentation

3.2.3.1 addToTail()

```
bool SLL::addToTail (
            int d )  [inline]
```

Adds node to tail of list

Definition at line 44 of file main.cpp.

```
44                          {
45         Node* newNode = new Node(d);
46         if(n == 0) { // the list is empty
47             head = newNode;
48             tail = newNode;
49             n++;
50         }
51         return(true);
52     }
```

3.2.4 Member Data Documentation

3.2.4.1 head

```
Node* SLL::head
```

Definition at line 28 of file main.cpp.

3.2.4.2 n

```
int SLL::n
```

Definition at line 30 of file main.cpp.

3.2.4.3 tail

```
Node* SLL::tail
```

Definition at line 29 of file main.cpp.

The documentation for this class was generated from the following file:

- /home/drseth/CPTR227/20210208-SLLClassDemo/src/main.cpp

Chapter 4

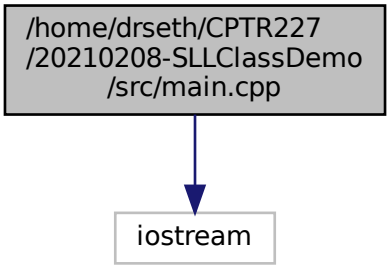
File Documentation

4.1 /home/drseth/CPTR227/20210208-SLLClassDemo/src/main.cpp File Reference

This is a demo of making a singly linked list.

```
#include <iostream>
```

Include dependency graph for main.cpp:



Classes

- class Node
- class SLL

Functions

- int main (int, char **)

4.1.1 Detailed Description

This is a demo of making a singly linked list.

Based on ODS book examples

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Date

2021 February 08

4.1.2 Function Documentation

4.1.2.1 main()

```
int main (
             int ,
             char **  )
```

Definition at line 55 of file main.cpp.

```
55                      {
56     SLL myList;
57     std::cout « "Hello, world! Ver 2.1\n";
58 }
```

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