

Assignment 6

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- 1 主体
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1 主体

具体实现看代码吧，代码里有一点简单注释，太明显的就没注释，感觉没什么好说的，这次的作业很清晰很明确。主要还是记录一点实现过程中遇到的问题。

在析构、复制构造和extend的过程中，需要新开空间给指针或者回收指针的空间。对于[]的重载中返回左值更泛用。在若干指针指向同一空间时，空间的回收容易出问题。析构的过程中需要把链表中所有的元素删掉。

关于大括号构造和[]重载以及流读入流输出是本次作业中我新学的内容。

复制构造也是第一次尝试，复制构造中传入的参数只能调用成员变量以及常函数。

当一个指针指向的空间被删除时，对应前驱和后继的对应指针得更改。总之，在若干指针指向同一空间时，需要相当谨慎。

2 测试

```
RUNNING TESTS ...
[=====] Running 10 tests from 1 test suite.
[-----] Global test environment set-up.
[-----] 10 tests from assignment6Test
[ RUN      ] assignment6Test.NodeTest
0 10
[      OK  ] assignment6Test.NodeTest (0 ms)
[ RUN      ] assignment6Test.LinkedListConstructors
3.14 20 13 -5 0 -3.2
[      OK  ] assignment6Test.LinkedListConstructors (0 ms)
[ RUN      ] assignment6Test.LinkedListCopyConstructor
1 2 3 4 5 6 7 8 9 10
0 1 2 3 4 5 6 7 8 9
[      OK  ] assignment6Test.LinkedListCopyConstructor (0 ms)
[ RUN      ] assignment6Test.LinkedListPush
0 1 2 3 4
0 1 2 3 4
```

```

[      OK ] assignment6Test.LinkedListConstructors (0 ms)
[ RUN      ] assignment6Test.LinkedListCopyConstructor
1 2 3 4 5 6 7 8 9 10
0 1 2 3 4 5 6 7 8 9
[      OK ] assignment6Test.LinkedListCopyConstructor (0 ms)
[ RUN      ] assignment6Test.LinkedListPush
0 1 2 3 4
0 1 2 3 4
-7 -6 -5 -4 -3 -2 -1 0 1 2 3
[      OK ] assignment6Test.LinkedListPush (0 ms)
[ RUN      ] assignment6Test.LinkedListPop
8
7
6
2 3 4 5 6
5
4 5 6 7 8
[      OK ] assignment6Test.LinkedListPop (0 ms)
[ RUN      ] assignment6Test.LinkedListSides
[      OK ] assignment6Test.LinkedListSides (0 ms)

```

```

7
6
2 3 4 5 6
5
4 5 6 7 8
[      OK ] assignment6Test.LinkedListPop (0 ms)
[ RUN      ] assignment6Test.LinkedListSides
[      OK ] assignment6Test.LinkedListSides (0 ms)
[ RUN      ] assignment6Test.LinkedListExtend

1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9

1 2 3 4 5 6 7 8 9 10 11 12 13 14
10 11 12 13 14
[      OK ] assignment6Test.LinkedListExtend (0 ms)
[ RUN      ] assignment6Test.LinkedListBracket
0 1 4 9 16 25 36 49 64

```

```

1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9

1 2 3 4 5 6 7 8 9 10 11 12 13 14
10 11 12 13 14
[      OK ] assignment6Test.LinkedListExtend (0 ms)
[ RUN      ] assignment6Test.LinkedListBracket
0 1 4 9 16 25 36 49 64
[      OK ] assignment6Test.LinkedListBracket (0 ms)
[ RUN      ] assignment6Test.LinkedListMainNodes
[      OK ] assignment6Test.LinkedListMainNodes (0 ms)
[ RUN      ] assignment6Test.LinkedListOthers
[      OK ] assignment6Test.LinkedListOthers (0 ms)
[-----] 10 tests from assignment6Test (0 ms total)

[-----] Global test environment tear-down
[=====] 10 tests from 1 test suite ran. (0 ms total)
[ PASSED ] 10 tests.
<<<SUCCESS>>>

```