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...8-DictionarySkipList\CS1D-AS8-DictionarySkipList\main.cpp
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2
   * AUTHOR
                   : Nick Reardon
3 * Assignment #8 : Skip Lists
4
  * CLASS
                   : CS1D
5
  * SECTION
                   : MW - 2:30p
6
                  : 03 / 25 / 20
   * DUE DATE
   8 #include "main.h"
9 using std::cout; using std::endl;
10
11
12 int main()
13 {
14
15
       * HEADER OUTPUT
16
17
18
      PrintHeader(cout, "Prompt.txt");
19
      20
21
      SkipList skipList(.6f, 16);
22
23
      cout << "Inserting: 18, 41, 22, 44" << endl;</pre>
24
25
      skipList.insert(18, "San Clamente");
      skipList.insert(41, "Mission Viejo");
26
      skipList.insert(22, "Laguna Niguel");
27
      skipList.insert(44, "Irvine");
28
29
30
      //skipList.print();
31
32
      //DELETE KEY 18
      cout << "Erasing 18" << endl;</pre>
33
34
      skipList.erase(18);
35
36
      //skipList.print();
37
      cout << "Inserting: 58, 32, 49" << endl;</pre>
38
39
      skipList.insert(58, "Lake Forest");
      skipList.insert(32, "San Diego");
40
      skipList.insert(49, "Anaheim");
41
42
43
      //skipList.print();
44
45
      //DELETE KEY 58
      cout << "Erasing 58" << endl;</pre>
46
47
      skipList.erase(58);
48
49
      //skipList.print();
50
51
      cout << "Inserting: 31, 17, 72, 41" << endl;</pre>
      skipList.insert(31, "Los Angeles");
52
```

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```
53
         skipList.insert(17, "Orange");
         skipList.insert(72, "Palms Springs");
 54
 55
         skipList.insert(41, "Riverside");
 56
 57
         //skipList.print();
 58
 59
         //DELETE KEY 49
         cout << "Erasing 49" << endl;</pre>
 60
 61
         skipList.erase(49);
 62
 63
         //skipList.print();
         cout << "Inserting: 19, 60, 35, 103, 11, 18, 22, 49" << endl;</pre>
 64
         skipList.insert(19, "Brea");
 65
         skipList.insert(60, "Santa Ana");
 66
         skipList.insert(35, "Tustin");
skipList.insert(103, "Oceanside");
 67
 68
         skipList.insert(11, "La Jolla");
 69
         skipList.insert(18, "Del Mar");
 70
         skipList.insert(22, "Aliso Viejo");
 71
         skipList.insert(49, "Laguna Beach");
 72
 73
 74
         //skipList.print();
 75
 76
         //DELETE KEY 41
         cout << "Erasing 41" << endl;</pre>
 77
 78
         skipList.erase(41);
 79
 80
         //skipList.print();
 81
         cout << "Inserting: 42, 49, 99, 29, 88, 41, 62" << endl;</pre>
 82
         skipList.insert(42, "Vista");
 83
         skipList.insert(49, "San Diego");
 84
         skipList.insert(99, "San Juan");
 85
         skipList.insert(29, "Dana Point");
 86
         skipList.insert(88, "El Segundo");
 87
         skipList.insert(41, "San Clemente");
 88
         skipList.insert(62, "Laguna Hills");
 89
 90
 91
         skipList.print();
 92
 93
         skipList.printLevels();
 94
 95
         std::cout << "Find value by key 41" << endl</pre>
              << "Resulting value: " << *skipList.find(41) << endl << endl;</pre>
 96
 97
         std::cout << "Calling size() method" << endl</pre>
 98
              << "Resulting value: " << skipList.size() << endl << endl;</pre>
 99
100
101
         system("pause");
102
         return 0;
103 }
104
```