

```
43 void shphashtable::printStats() const {
44     int numBuckets = size;
45     int numWords = 0;
46     int numEmptyBuckets = 0;
47     int longestChain = 0;
48
49     for(int i = 0; i < size; i++) {
50         Node* temp = buckets[i];
51         int chainLen = 0;
52         while(temp != nullptr) {
53             chainLen++;
54             numWords++;
55             temp = temp->next;
56         }
57         if(chainLen > longestChain)
58             longestChain = chainLen;
59         if(buckets[i] == nullptr)
60             numEmptyBuckets++;
61     }
62
63     double avgChainLen = 1.0*numWords/(numBuckets-numEmptyBuckets);
64
65     cout << "STATS" << endl;
66     cout << "NUM BUCKETS: " << numBuckets << endl;
67     cout << "NUM WORDS: " << numWords << endl;
68     cout << "NUM EMPTY BUCKETS: " << numEmptyBuckets << endl;
69     cout << "LONGEST CHAIN: " << longestChain << endl;
70     cout << "AVG CHAIN LEN: " << avgChainLen << endl;
71
72 }
```