

Based on the statistics, the rehash_count should be the smallest number, since the rehash will only occur once or less if the expected size is followed. The probe_total should always be bigger than the probe_max since the probe_total will count the total number of times that the code probes, which includes the probe_max number of times. Finally, the conflict_count should always be smaller than the probe_total and larger than the probe_max. This is because whenever a conflict happens, the code **must** probe through the table to find a space to insert the new item. Thus, a single conflict will always result in one or more probes. Furthermore, the probe_total will also increase when the code has to probe when searching for an item, while the conflict_count will only increase during a conflict while trying to insert a new item. Thus, the size of each statistic should be as follows:
probe_total > conflict_count > probe_max > rehash_count.

Example 1:

<div><p>This is the list of 60 keys that were inserted into the Hash Table</p><pre>TRADER_NAMES = ["Pierce Hodge", "Loren Calhoun", "Janie Meyers", "Ivey Hudson", "Rae Vincent", "Bertie Combs", "Brooks McLaughlin", "Lea Carpenter", "Charlie Kidd", "Emil Huffman", "Letitia Roach", "Roger Mathis", "Allie Graham", "Stanton Harrell", "Bert Shepherd", "Orson Hoover", "Lyle Randall", "Jo Gillespie", "Audie Burnett", "Curtis Dougherty", "Bernard Frost", "Jeffie Hensley", "Rene Shea", "Milo Chaney", "Buck Pierce", "Drew Flynn", "Ruby Cameron", "Collie Flowers", "Waldo Morgan", "Winston York", "Dollie Dickson", "Etha Morse", "Dana Rowland", "Eda Ryan", "Audrey Cobb", "Madison Fitzpatrick", "Gardner Pearson", "Effie Sheppard", "Katherine Mercer", "Dorsey Hansen", "Taylor Blackburn", "Mable Hodge", "Winnie French", "Troy Bartlett", "Maye Cummings", "Charley Hayes",</pre></div>	<div><p>This is the output of the statistics.</p><pre>(11, 22, 5, 0)</pre><p>As shown above, the statistics do follow the pattern as previously discussed. Since the table size was initialised based on the expected size (length of the input list), the rehash_count is 0. Then, the probe_max is next smallest figure. Finally, it can be seen that the conflict_count is smaller than the probe_total which is the largest statistic. This is according to the expectations.</p></div>
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Example 2:

This is the list of 6 keys that were inserted into the Hash Table with an initial expected size of 2:

```
newList = [  
    "oh no",  
    "holy",  
    "no",  
    "wonderful",  
    "no",  
    "spot on"  
]
```

This is the output of the statistics.

```
(5, 6, 2, 3)
```

In this scenario, all the other statistics are still following the expected outcomes except the rehash_count. This is because in this scenario, the initial expected size was inputted as only 1/3 of the actual size. Thus, multiple rehashes had to be done to constantly increase the size of the hash table.