***Report***

In main class i used an instance of “**Management**” class and “**run**” function of it. Management.run calls other function in Management class like initialize, calculates search times and finds searched words for “search.txt”(from our hash table), and returns the most relevant text after user enters the 3 words.

**Initialize function**: Have 2 parameters(hashfunction, collision handling). This function reads words from sport texts then use instance of **HashedDictionary** class and “**add”** function of it.

**Add function:** Using hashfunction and collision handling parameters (from initialize) and inserts words to hash table via using those parameters apart from each other.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Load Factor** | **Hash Function** | **Collision Handling** | **Collision Count** | **Indexing Time** | **Avg. Search Time** | **Min. Search Time** | **Max. Search Time** |
| α=50% | SSF | LP | 11.135.283 | 330 ms | 59.342 ns | 200 ns | 1.207.700 ns |
| DH | 1.430.031 | 249 ms | 48.708 ns | 300 ns | 1.265.600 ns |
| PAF | LP | 12.344.815 | 258 ms | 79.031 ns | 500 ns | 988.300 ns |
| DH | 11.979.760 | 200 ms | 161.330 ns | 300 ns | 1.946.700 ns |
| α=80% | SSF | LP | 13.364.672 | 350 ms | 148.843 ns | 500 ns | 1.299.200 ns |
| DH | 1.873.474 | 230 ms | 106.799 ns | 600 ns | 2.011.600 ns |
| PAF | LP | 11.761.538 | 240 ms | 125.806 ns | 500 ns | 1.175.100 ns |
| DH | 9.909.339 | 210 ms | 127.687 ns | 400 ns | 2.648.300 ns |

***Table 1.*** *Performance matrix*