

**How does the number of Bloom filter bits examined per miss vary (for the same input) as the Bloom filter varies in size?**

The number of bits examined varies by a small margin.

This table shows with the default size.

1 word	10 words	50 words	100 words	500 words
1.0	1.034483	1.039501	1.035197	1.035917

With Bloom filter of 3333.

1 word	10 words	50 words	100 words	500 words
1.0	1.03583	1.03363	1.03473	1.03883

**How does changing the Bloom filter size affect the number of lookups performed in the hash table?**  
**This is related to the false positive rate of the Bloom filter; we discussed this in the lecture that discussed Bloom filters.**

The larger filter sizes have less number of lookups performed in the hash table because they have a lower chance of false positives.

**How does the number of links followed without the move-to-front rule compare to the number followed with the move-to-front rule?**

**How does the number of links examined vary as the size of the hash table varies? What does this say about setting the size of the hash table when using a chained hash table?**

<https://www.geeksforgeeks.org/arrow-operator-in-c-c-with-examples/#>

I used this link to help me understand structures and using the arrow operator.

<https://www.geeksforgeeks.org/strdup-strndup-functions-c/>

I used this link to help me conceptually understand `strdup()`, which, like the assignment told us to do, I did not use.

<https://www.geeksforgeeks.org/tolower-function-in-c/>

I used this link to help me understand `tolower()`.

<https://www.geeksforgeeks.org/isalnum-function-c-language/>

I used this link to help me understand `isalnum()`.

<https://www.scaler.com/topics/c/assignment-operators-in-c/>

I used this link to better my coding and learned that there were bitwise assignment operators.