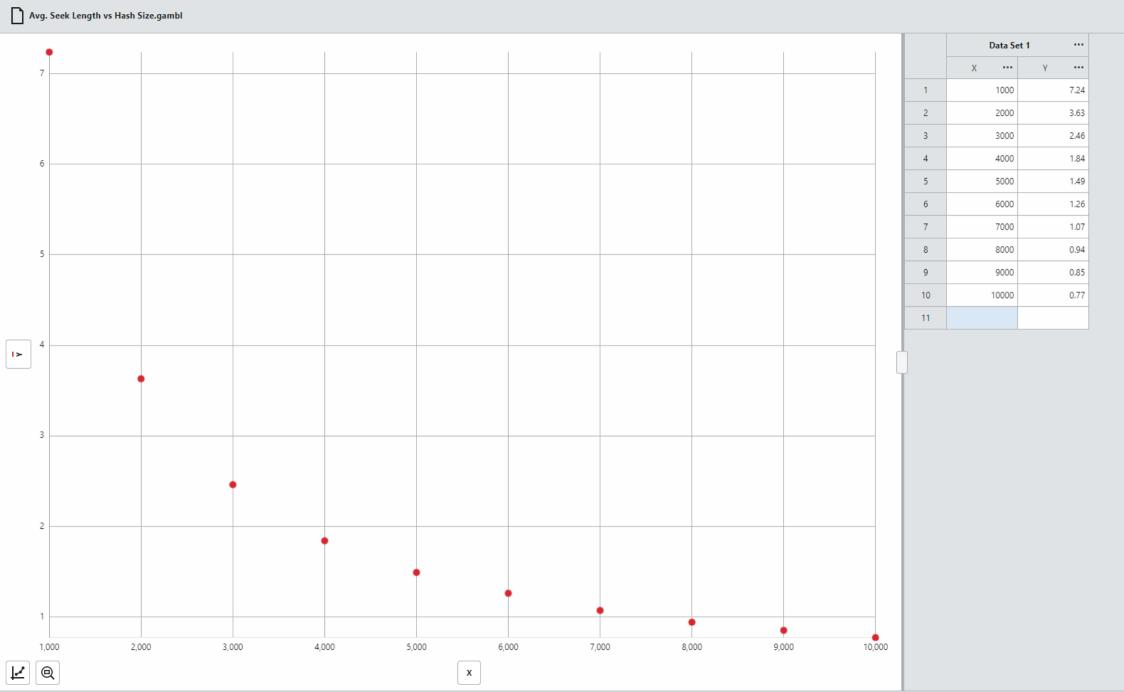
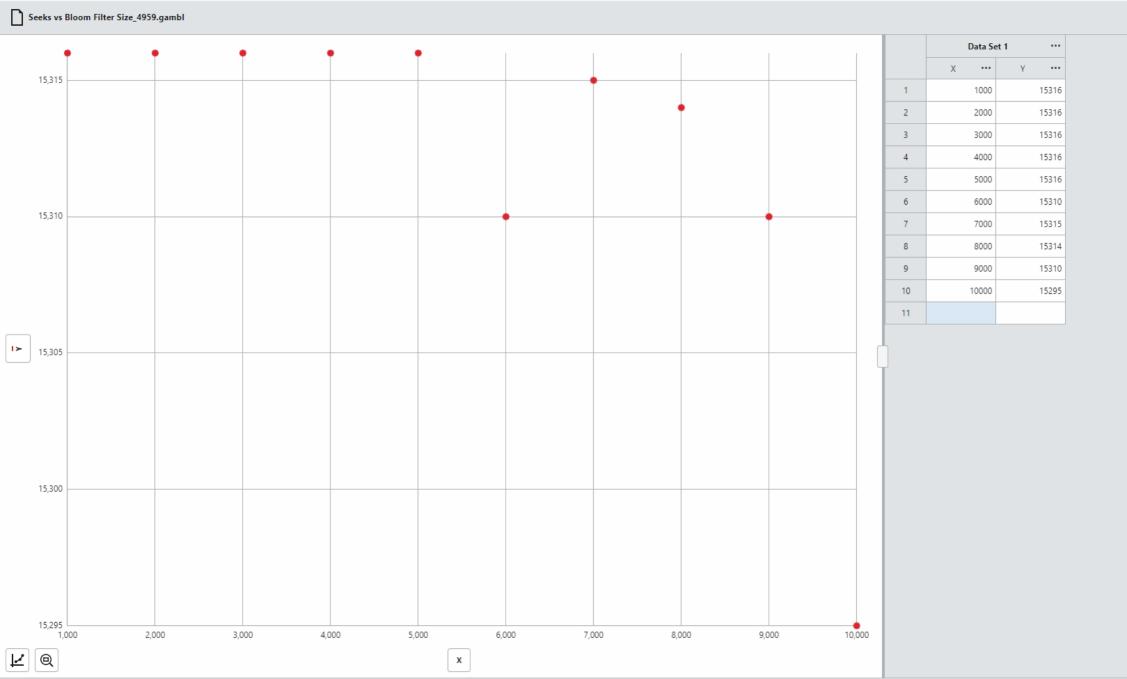
Writeup To dudlyze the vesalts of assignment ?
We variables seeks " & "links" were created track the amount of times we called a linker lookup & the amount of node links traversed, tollowing graphs seeks and the average seek length as we vary the hash table and ploom filter size. Numbers are based of the same file "parlummer, " ava Seek length = links Y CSEEKS? 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 X Chash table As we vary hosh table size the amount of seeks does not change. This is likely due to the fact that we will always need to look up the same amount of seens of words that we suspect are bad.



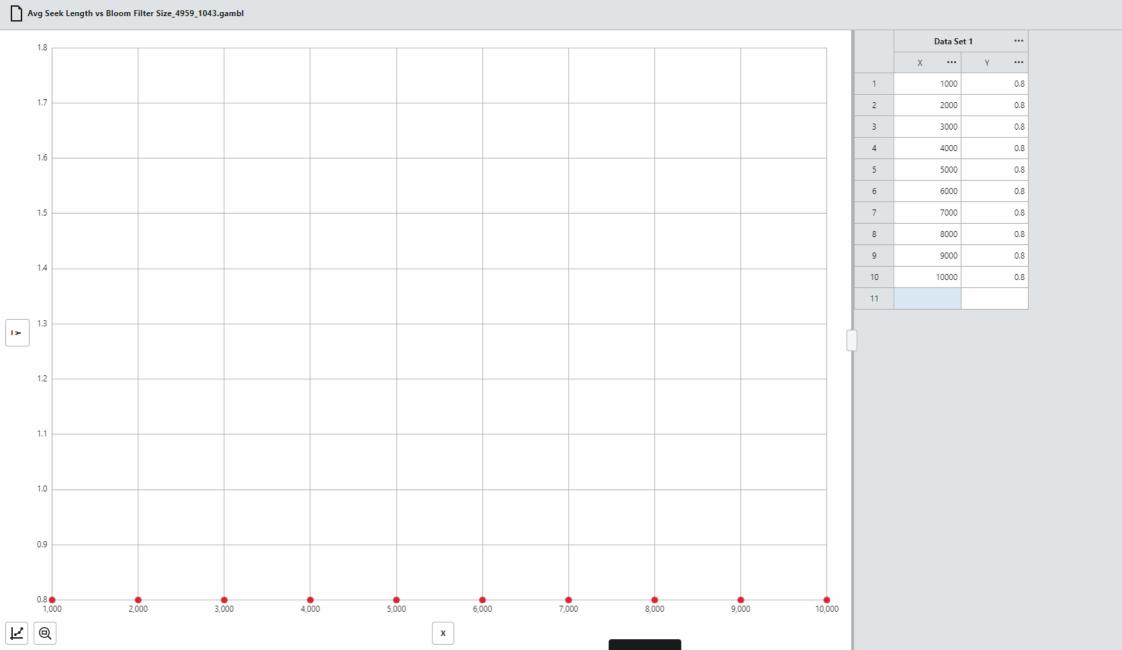
avg, seek length = links secks

As the Hash table size is increased by
1,000, we can clearly see a decrease in the
average seek length. This is because the more space
we have in our hash table the 1255 "cramped" it
becomes for linked lists. In other words, More hash
table space means when less nodes to traverse per
linked list. Small Hach table



Q Cuy o

· AS We increase our bloom filter size by 4000 we can clearly set that the amount of seeks ve main et a constant (15216) until we verch a bloom filter size of 6,000. Then, our seeks Noticeably decrease which is likely due to the our system having less false-positives and thus Lecreasing the amount of Fines we much verity d word of being a bad a Python and Java due forced to share the Bloom Filter "python" came bits be filter is too small. 1 java11 We aren't save which one is the real positive transquession, Large Bloom · Now WE WAVE MAR Space & home move Certainy the des to which word might be a transgression



· As we increase the bloom filter size, there is a minimal decrease in our ang. Seek length. This makes sense because our seeks of the amount of times we need to call lookup() is decreased. avg, seek length = Tinks seeks Now, When we compare our vesults we the More - to - Front option endbled compared to when it is Not We will notice a difference. Morp-To Front Disabled Mare To Frant Enabled] Seeks: 14898 Avg. Seek Length: 0.74009 Avg. Seek Length: 0.771781 . It is clear that the ang. Seck length is the only differen WI the disabled version being greatery than whom more to front was enabled. . This means that the amount of links we are turersind is greater which makes sense because humans tend have often i.e. "the" or same thing"