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                                        DESIGN.pdf
Bloom filters:
       bf_delete():
              If by exists and bm exists:
                     bv_delete()
                     free(bf)
                     Bf = NULL
       bf_insert():
              index_0 = hash(insert_val)
              index_1 = hash(insert_val)
              index_2 = hash(insert_val)
              Set index 0, 1, 2
       bf_probe():
              index_0 = hash(probe_val)
              index_1 = hash(probe_val)
              index_2 = hash(probe_val)
```

Bit vector:

This implementation will be the same implementation as the one used in previous assignments like asgn5

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Hash Tables:
       delete():
              free(list)
              Pointer to list -> NULL
              free(table)
              Pointer to table -> NULL
       ht_lookup():
              // Simple wrapper around ll_lookup
              If ll exists
                      11_loopup()
              Else
                      Return NULL
       ht_insert()
              // Simple wrapper
              If ll exists
                      ll_insert()
              Else
                      Return NULL
LinkedList
       ll_lookup()
              Traverse through 11
                      If word is the same then save the pointer and break
              If mtf is true
```

## Move node to front

11 insert()

If (it is not in lookup)

Insert node at the front

My banhammer.c will first parse all arguments and use helper functions to print the -h flag etc. I will use enum and an array to keep track of my arguments throughout the program.

In order to keep track of the nodes that contain the badspeak I will use my ll ADT as I am not sure of the length of the list.

The regex will look like:

The first part of the program matches all words and numbers and \_ in a word, then a words can optionally have a - or ' connected to it and therefore we match any other word after that, the ()\* lets us do this optionally.