ban hammer:

Need Node ADT: very similar to asgns

Need a hash function; going to use the speck ciphen

need a bit vector: Similar to code for asgns

going to use the bit vector in order to make

a bloom filter!

going to build a binary search tree (or multiple!)

Using the Node ADT.

aping to use Eugene's Parser to go through text

For lexical analysis with regex

bit vector:

need to see how many bytes you need to hold

length bits!

Tienghth bytes! the vector is an array of

Vint 8-t's

For set and clr bits, Use the bit twiddling

from asgla 5

set vector [index/8] or = (1 shifted left (index:/8))

clr vector [index/8] and = ~(1 shifted left (index:/8))

note ADT:
has two pointers, to left and right Children. NULL if none
they also contain, oldspeak > newspeak
translation.
if it is badspeak (no translation)
newspeak is set to NULL
these will be used to build binary
Search trees!

binary search tree: tree or modes

create: leturn NULL (empty tree) delete: Post order traversal delete nodes

n'eight: return 1+ Max (height of left tree, height of right tree) use an if statement!

Size: Peturn 1 + Size of right + Size of lept

if NULL, return 0

insert: traverse the tree, comparing strings in order to find the correct Spot.

find: traverse the free, comparing strings to go to the right Spot, if you hit NVLL, the node is not there.

Bloom filter is a bit vector that uses hashes as indicies create: make a by/delete: delete a by size: Size of the lov insert: Set bit @ hash of each observent with 3 salts.

Probe: check 3 indicres from the hash of oldspean if they are all 1 return true

Count: Count the set bits in the by check

hash table: array of roots to binary trees.

Size: return Size

look up: hash word, check indicy of ht if NNULL

then look up word in Tree.

insert: hash word, insert into binary tree

count: traverse table counting all Non NULL entries

avg_bst_Size: average Size of bst's in table

avg_bst_height: average height of bst's in table

hash - table bloom fiter Kegex Size: Peturn avg-Size: the 6F 7 Size - We need to recognize take Size of every from the Struct words with tree and divide it A-Z, a-Z, 0-9 Set Salts by the amount of prom "Salts.h" Non NULL entries in the table Eugene's example [A-Za-Z]+ avg. height. captures word with A-Za-7 So add take the height OP all the trees "_" ," and " " to allow and divide it by the amount OF for those symbols to work! Non NULL entries in the table A-Za-z0-9

banhammer.C.

we're going to create a hash table and a bloom filter with the size from the user! we then read in from badspeak txt and newspeak. txt and Populate the hash table and bloom filter. we then Parse through the text and checking the bloomfilter, if it is "in" the bloom filter check the hash table. if it's not there then it's fine, if it's in there then we do one of two things. if there's no newspeak translation then add to badspeak if there is, add to newspeak after Parsing text, check newspeak and badspeak for words deliver message for which words were used in "messages.h" and then the words that were illegal!

banhammer.C.

keep found illegal words in one of two 65+5: newspeaks or badspeaks

you then print this tree out when you need to tell the user which words were illegal. this way, you can print in alphabetic order!

Check Size of these trees for which message to Print. (or not to print!)