

Hashing

1. Use Cuckoo Hashing to insert the following elements into a hash table of size 7:

5, 12, 11, 1 given the hash functions:

$$h_1(n) = n \% 7$$

$$h_2(n) = (2n+1) \% 7$$

2. Using chaining and the hash function $h(n) = n \% 5$, insert the following into a hash table of size 5:

22, 16, 21, 6, 8, 3

~~insert~~

3. Using double hashing and the hash function

$$h_1(n) = n \% 3$$

$$h_2(n) = n \% 7$$

insert the following elements into a hash table of size 7:

1, 8, 22, ~~22~~ 37

delete 1

search for ~~22~~ 37