Datastructures hashing with chaining

April 20, 2021

```
[17]: hash_table = list([0 for i in range(7)])
      def get_key(data):
          return hash(data)
      def hash func(key):
          return key % 7
      def save_data(data, value):
          index_key = get_key(data)
          hash_address = hash_func(index_key)
          if hash_table[hash_address] != 0: #chaning
              for i in range(len(hash_table[hash_address])):
                  if hash_table[hash_address][i][0] == index_key:
                      hash_table[hash_address][i][1] == value
                      return
              hash_table[hash_adress].append([index_key, value])
          else :
              hash_table[hash_address] = [[index_key, value]]
      def read data(data):
          index_key = get_key(data)
          hash_address = hash_func(index_key)
          if hash_table[hash_address] != 0:
              for i in range(len(hash_table)):
                  if hash_table[hash_address][i][0] == index_key:
                      return hash_table[hash_address][i][1]
          else:
              None
```

```
[23]: save_data('qwer','1234')
save_data('fjdo','12889596')
save_data('qweji','288483')
```