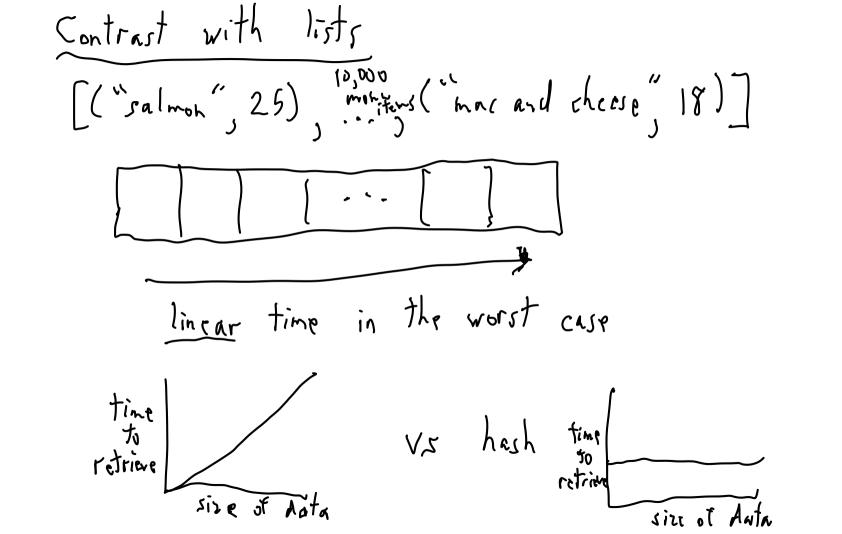


hash tables are (dictionaries) On insertion t some function that returns an arbitrary number that is very different for similar strings

The Benefit we can retriere Values in time that depends only on the hash tangtion, not size of data

On lookup h ("salmon") = 10152



What about collisions? If an item would go to the same place as an item already in the array, Python uses open addressing it skips ahead some spaces and checks whether that space is free To the worst case we keep hoking for a new = 10125 yes 10125 spot until we try the whole table, h ("sushi") /= 10125