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class SymbolTable:
     self. table = \{\}
  def ascii hash(self, input):
     if not isinstance(input, str):
       raise Exception("The stored values of the hash table have to be strings.")
     ascii codes sum = 0
     for character in input:
        ascii codes sum += ord(character)
     return ascii codes sum
  def is key in table(self, key):
     try:
       dummy assignment = self. table[key]
       return True
     except KeyError as ke:
       return False
  def add element(self, element):
     key = self.ascii_hash(element)
     if not self.is_key_in_table(key):
       self. table[key] = [element]
        return (key, 0)
     elif element not in self. table[key]:
        self. table[key].append(element)
        return (key, len(self. table[key]) - 1)
  def search element(self, element):
     key = self.ascii hash(element)
     if self.is key in table(key):
       return ((key, self. table[key].index(element)), element in self. table[key])
     return False
     return str(self. table)
symbol table = SymbolTable()
print("Adding \"some identifier\" to the symbol table... Returned value from add element:
{}".format(symbol table.add element("some identifier")))
print("Adding \"some constant\" to the symbol table... Returned value from add element:
{}".format(symbol table.add element("some constant")))
print("Adding \"a\" to the symbol table... Returned value from add element:
{}".format(symbol table.add element("a")))
print("Adding \"a\" to the symbol table... Returned value from add element:
{}".format(symbol table.add element("a")))
print("Is a in the table? {}".format(symbol_table.search_element("a")))
print("Is b in the table? {}".format(symbol_table.search_element("b")))
print("\nHash collision example:")
print("Adding \"ac\" to the symbol table... Returned value from add_element:
{}".format(symbol_table.add_element("ac")))
print("Adding \"bb\" to the symbol table... Returned value from add_element:
{}".format(symbol_table.add_element("bb")))
print("Is ac in the table? {}".format(symbol table.search element("ac")))
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print("Is bb in the table? {}".format(symbol_table.search_element("bb")))
print(str(symbol_table))