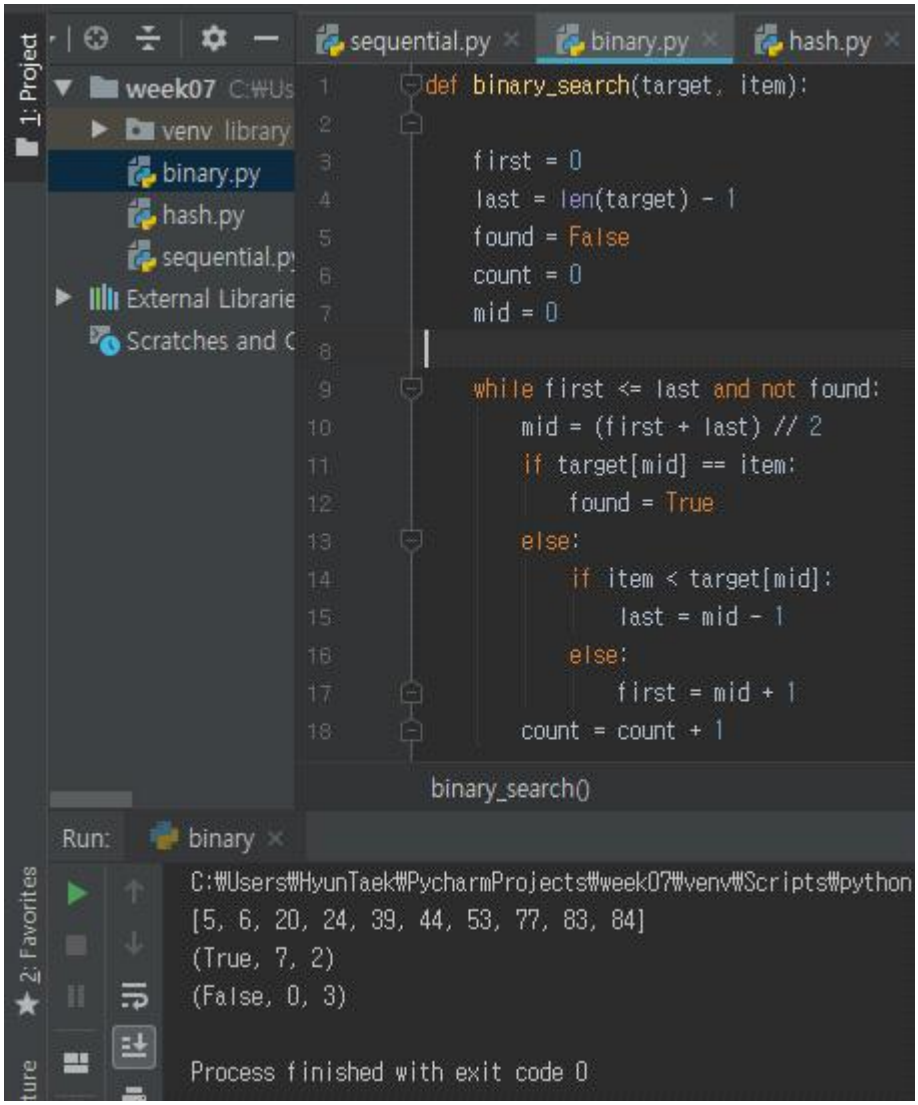
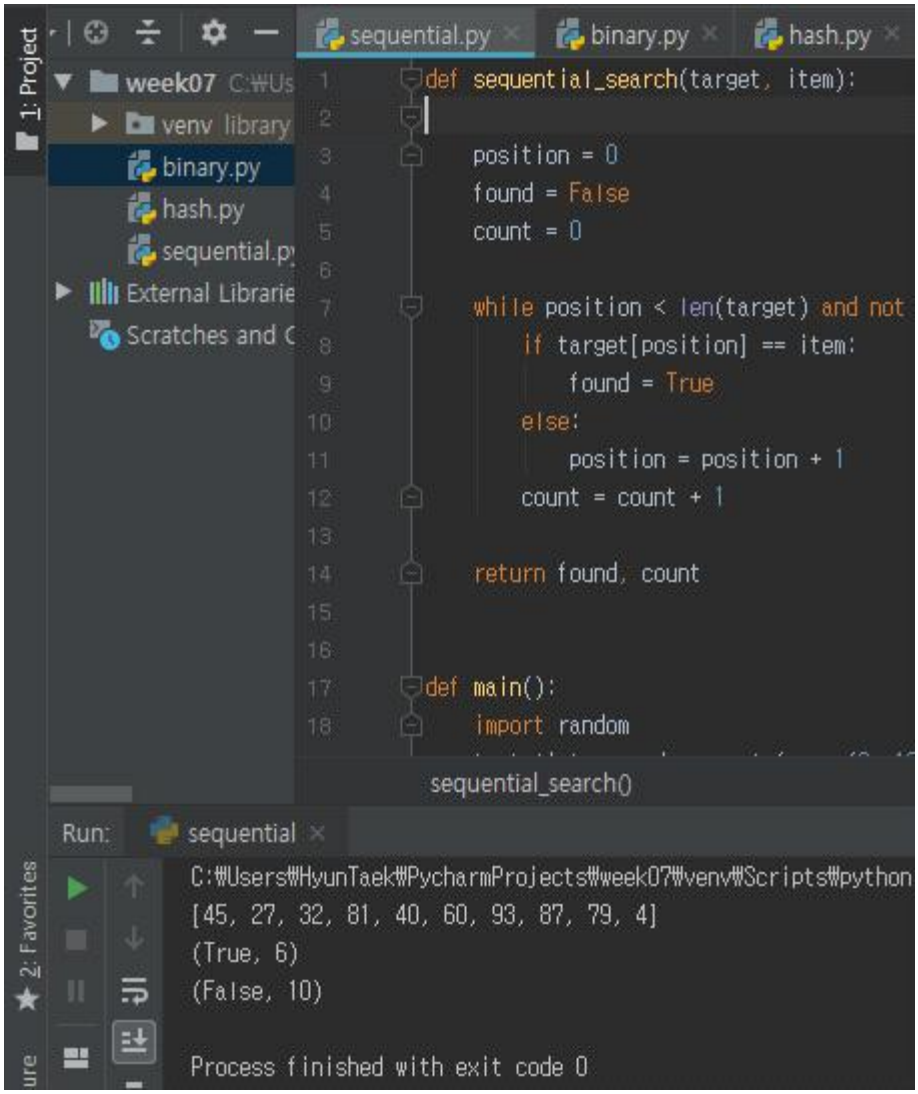
201201871 서현택

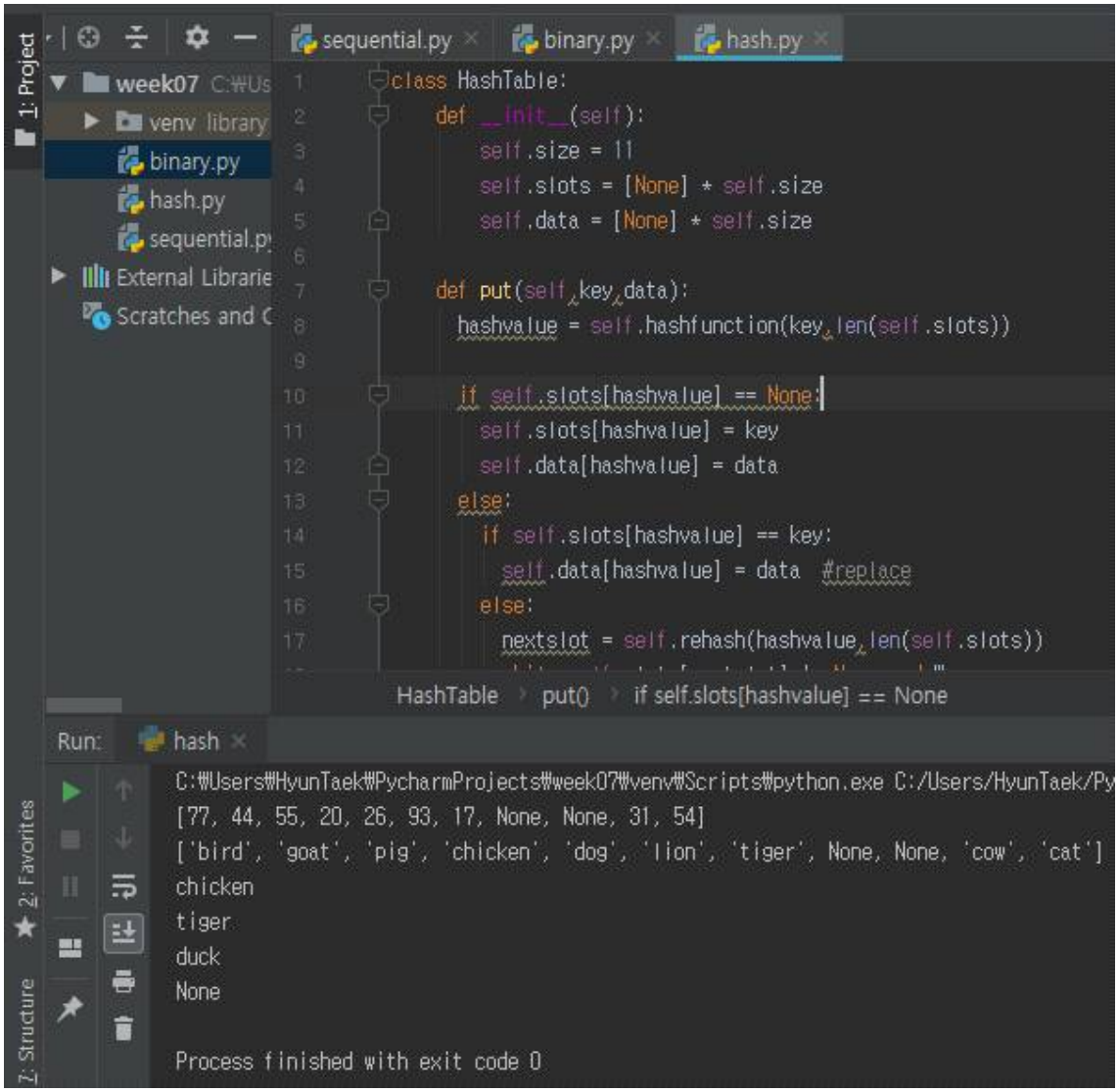
1. Binary



2. Sequential


sequential.py
binary.py
hash.py
week07
venv library
binary.py
hash.py
sequential.py
External Librarie
Scratches and C
def sequential_search(target, item):
position = 0
found = False
count = 0
while position < len(target) and not
if target[position] == item:
found = True
else:
position = position + 1
count = count + 1
return found, count
def main():
import random
sequential_search()
Run:
sequential
C:\Users\HyunTaek\PycharmProjects\week07\venv\Scripts\python
[45, 27, 32, 81, 40, 60, 93, 87, 79, 4]
(True, 6)
(False, 10)
Process finished with exit code 0

3. Hash


sequential.py
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hash.py
sequential.py
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Scratches and C
class HashTable:
def __init__(self):
self.size = 11
self.slots = [None] * self.size
self.data = [None] * self.size
def put(self,key,data):
hashvalue = self.hashfunction(key,len(self.slots))
if self.slots[hashvalue] == None:
self.slots[hashvalue] = key
self.data[hashvalue] = data
else:
if self.slots[hashvalue] == key:
self.data[hashvalue] = data #replace
else:
nextslot = self.rehash(hashvalue,len(self.slots))
HashTable › put() › if self.slots[hashvalue] == None
Run:
hash
C:₩Users₩HyunTaek₩PycharmProjects₩week07₩venv₩Scripts₩python.exe C:/Users/HyunTaek/Py
[77, 44, 55, 20, 26, 93, 17, None, None, 31, 54]
['bird', 'goat', 'pig', 'chicken', 'dog', 'lion', 'tiger', None, None, 'cow', 'cat']
chicken
tiger
duck
None
Process finished with exit code 0
1: Project
2: Favorites
7: Structure