Instructor: Jun Yi

Due: 11/29, 11:00pm

Design a HashMap without using any built-in hash table libraries

- 1) (30 points) desgin functions to inserts a (key, value) pair into the HashMap. If the key already exists in the map, update the corresponding value.
- 2) (30 points) int get(int key) returns the value to which the specified key is mapped, or -1 if this map contains no mapping for the key
- 3) (40 points) void remove(key) removes the key and its corresponding value if the map contains the mapping for the key

Note: please analyze your time complexity for each function. You can wirte it as the comment or the function description.

Please do a simple test of all your methods once you finish it.