706. Design HashMap

Description

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

Implement the MyHashMap class:

- MyHashMap() initializes the object with an empty map.
- void put(int key, int value) inserts a (key, value) pair into the HashMap. If the key already exists in the map, update the corresponding value.
- 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.
- void remove(key) removes the key and its corresponding value if the map contains the mapping for the key.

Example 1:

```
Input
["MyHashMap", "put", "get", "get", "put", "get", "remove", "get"]
[[], [1, 1], [2, 2], [1], [3], [2, 1], [2], [2]]
Output
[null, null, null, 1, -1, null, 1, null, -1]

Explanation
MyHashMap myHashMap = new MyHashMap();
myHashMap.put(1, 1); // The map is now [[1,1]]
myHashMap.put(2, 2); // The map is now [[1,1], [2,2]]
myHashMap.get(3); // return 1, The map is now [[1,1], [2,2]]
myHashMap.put(2, 1); // The map is now [[1,1], [2,1]]
myHashMap.put(2, 1); // The map is now [[1,1], [2,1]]
myHashMap.get(2); // return 1, The map is now [[1,1], [2,1]]
myHashMap.get(2); // return 1, The map is now [[1,1], [2,1]]
myHashMap.get(2); // return 1, The map is now [[1,1], [2,1]]
myHashMap.get(2); // return 1, The map is now [[1,1], [2,1]]
myHashMap.get(2); // remove the mapping for 2, The map is now [[1,1]]
myHashMap.get(2); // return -1 (i.e., not found), The map is now [[1,1]]
```

Constraints:

- 0 <= key, value <= 10 ⁶
- At most 10 4 calls will be made to put, get, and remove.