

```

1 public class HashTable {
2     private static final int size = 10;
3     private MyQueue<Image>[] hashtable;
4
5     public HashTable() {
6         hashtable = new MyQueue<Image>[size];
7         for (int i = 0; i<size; i++) {
8             hashtable[i] = new MyQueue<Image>();
9         }
10    }
11
12    public void put(Image newImage) {
13        hashtable[hash(newImage.getName())].enqueue(newImage);
14    }
15
16    public Image get(String name) {
17        Image res;
18        Image first = hashtable[hash(name)].dequeue();
19        hashtable[hash(name)].enqueue(first);
20        while (!hashtable[hash(name)].isEmpty()) {
21            Image current = hashtable[hash(name)].dequeue();
22            hashtable[hash(name)].enqueue(current);
23            if (current.getName().equals(name)) {
24                res = current;
25                break;
26            }
27            else if (current == first) {
28                res = null;
29                break;
30            }
31        }
32        return res;
33    }
34
35    private int hash(String key) {
36        int i;
37        int v = 0;
38
39        for (i = 0; i < key.length(); i++) {
40            v += key.charAt(i);
41        }
42        return v % size;
43    }
44 }

```