Design HashMap

Try to solve the Design HashMap problem.

We'll cover the following

Statement

Design a hash map without using the built-in libraries. We only need to cater integer keys and integer values in the hash map. Return NULL if the key doesn't exist.

It should support the following three primary functions of a hash map:

- **Put(key, value):** This function inserts a key and value pair into the hash map. If the key is already present in the map, then the value is updated. Otherwise, it is added to the bucket.
- **Get(key):** This function returns the value to which the key is mapped. It returns -1, if no mapping for the key exists.
- **Remove(key):** This function removes the key and its mapped value.

Constraints:

- $0 \leq$ `key` $\leq 10^6$
- $0 \leq$ `value` $\leq 10^6$
- At most 10^4 calls can be made to **Put()**, **Get()**, and **Remove()** functions.

Examples

Sample example 1

Input

```
Put(1, 1)
```

```
Get(1)
```

Output

```
Result of Get(1) = 1
```

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Design HashMap

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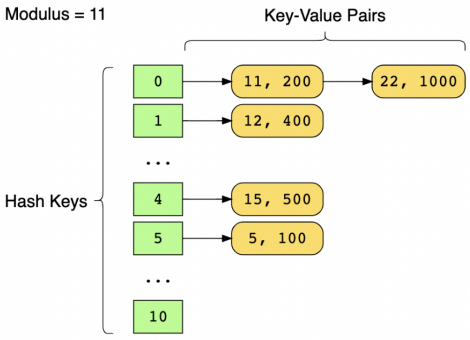


Consider the above hash map where the key-value pairs are mapped according to their respective hash keys, and the modulus base is 11. What will the value mapped to the key 12 be when the function below is called?

```
Put(12, 500)
Get(12)
```

A) 500

B) 400

Submit Answer

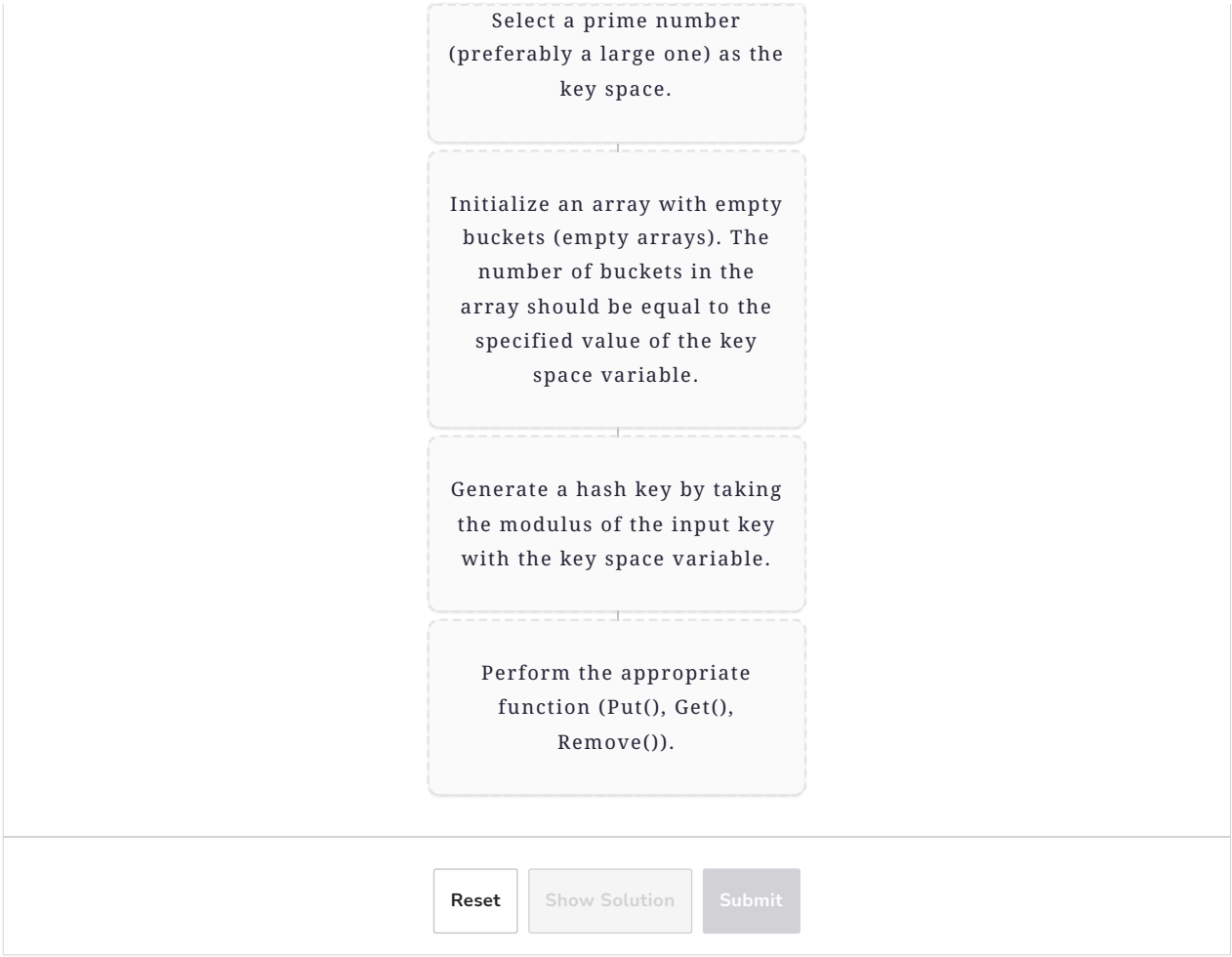
Question 1 of 2
0 attempted

Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Drag and drop the cards to rearrange them in the correct sequence.



Try it yourself

Implement your solution in `MyHashMap.java` and `Bucket.java` in the following coding playground:

Input #1

["DesignHashMap","Put","Get"]

Input #2

[[],[15,250],[15]]

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Solution: Design Hash...

Mark as Completed