

Description	My Submissions	Hints/Editorial	AC Submissions	My Notes (0)
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# LRU Cache

? Ask Doubt

Time-Limit: 2 sec

Score: 0/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For: 

AZ-201

## Description

Design a data structure that follows the constraints of a Least Recently Used (LRU) cache.

## Input Format

Implement the LRUCache class:

- LRUCache(int capacity)** : Initialize the LRU cache with **positive** size capacity.
- int get(int key)** : Return the value of the key if the key exists, otherwise return -1.
- void put(int key, int value)** : Update the value of the key if the key exists. Otherwise, add the key-value pair to the cache. If the number of keys exceeds the capacity from this operation, **evict** the least recently used key.

## Output Format

For every call to the *get* function print the value of the key if it exists else print -1.

## Constraints

$1 \leq \text{capacity} \leq 10^5$

$1 \leq \text{key}, \text{value} \leq 10^5$

At most  $10^5$  calls will be made to functions *get* and *put*.

## Sample Input 1

Copy

```
9 2
put 1 1
put 2 2
get 1
put 3 3
get 2
put 4 4
get 1
get 3
get 4
```

## Sample Output 1

Copy

C++14[GCC] ▾

Submit

1 ▾

#include <bits/stdc++.h>

2 using namespace std;

3

4 class LRUCache