

Description

Solution

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Java

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677. Map Sum Pairs

Medium👍 956👏 110❤️ Add to List🔗 Share

Implement the MapSum class:

- MapSum() Initializes the MapSum object.
- void insert(String key, int val) Inserts the key-val pair into the map. If the key already existed, the original key-value pair will be overridden to the new one.
- int sum(string prefix) Returns the sum of all the pairs' value whose key starts with the prefix.

Example 1:

Input

["MapSum", "insert", "sum", "insert", "sum"]
[[], ["apple", 3], ["ap"], ["app", 2], ["ap"]]

Output

[null, null, 3, null, 5]

Explanation

MapSum mapSum = new MapSum();
mapSum.insert("apple", 3);
mapSum.sum("ap"); // return 3 (apple = 3)
mapSum.insert("app", 2);
mapSum.sum("ap"); // return 5 (apple + app = 3 + 2 = 5)

Constraints:

- 1 <= key.length, prefix.length <= 50
- key and prefix consist of only lowercase English letters.
- 1 <= val <= 1000
- At most 50 calls will be made to insert and sum.

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class MapSum {

/** Initialize your data structure here. */

public MapSum() {

}

public void insert(String key, int val) {

}

public int sum(String prefix) {

}

}

/**

* Your MapSum object will be instantiated and called as such:

* MapSum obj = new MapSum();

* obj.insert(key,val);

* int param_2 = obj.sum(prefix);

*/

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