56. Two Sum

Difficulty Easy Accepted Rate 28%

Given an array of integers, find two numbers such that they add up to a specific target number.

The function `twoSum` should return *indices* of the two numbers such that they add up to the target, where index1 must be less than index2. Please note that your returned answers (both index1 and index2) are zero-based.

Notice

You may assume that each input would have exactly one solution

Example

numbers= `[2, 7, 11, 15]` , target= `9`

return `[0, 1]`

```java
public class Solution {
    public int[] twoSum(int[] numbers, int target) {
        // write your code here
        int res[] = new int[2];
        HashMap<Integer, Integer> map = new HashMap<Integer, Integer>();
        for( int i = 0; i < numbers.length; i++ ){
            int cur = numbers[i];
            int toFind = target - cur;
            if( map.containsKey(cur) ){
                res[0] = map.get(cur);
                res[1] = i;
            } else{
                map.put(toFind, i);//注意,将差值放入
            }
        }
        return res;
    }
}
```