

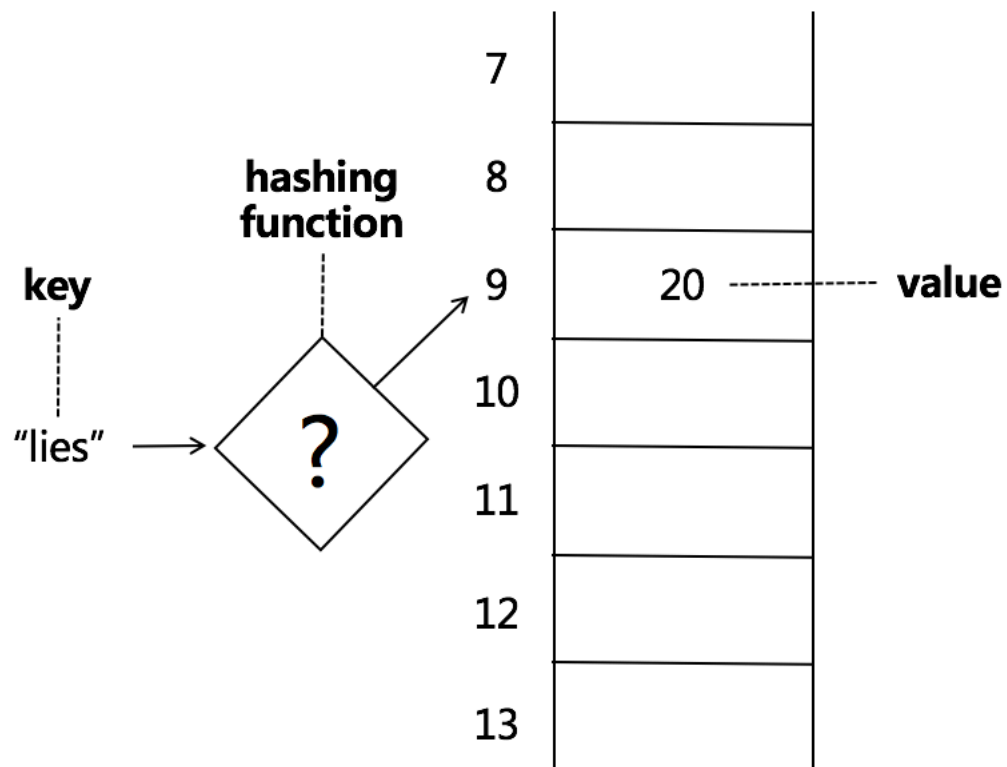
哈希表(HashTable) & 集合(Set)

本节内容

1. Hash Function

2. Hash Collisions

Hash Function



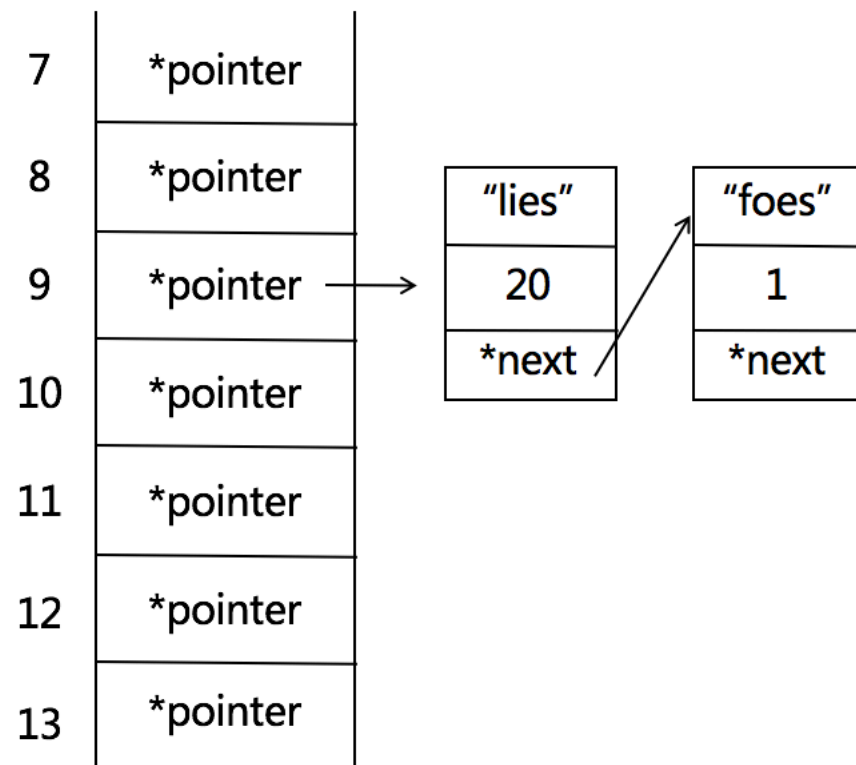
" l i e s "

↓ ↓ ↓ ↓

$$108 + 105 + 101 + 115 = 429$$

Hash Collisions

" l i e s "
 ↓ ↓ ↓ ↓
 108 + 105 + 101 + 115 =
 429
 108 + 105 + 101 + 115 =
 ↑ ↑ ↑ ↑
 " f o e s "



HashMap best practices

Python

`dict`

`hashmap = {key: value}`

Java

`HashMap`

`TreeMap`

C++

`std::unordered_map`

`std::map`

C#

`Dictionary<TKey,TValue>`

`Hashtable`

`StringDictionary`

`SortedDictionary`

HashSet best practices

Python

```
hashset = {value1, value2}
```

C++

```
std::unordered_set
```

```
std::set
```

Java

```
HashSet
```

```
TreeSet
```

C#

```
HashSet
```

```
SortedSet
```

实战题目

1. <https://leetcode.com/problems/kth-largest-element-in-a-stream/discuss/149050/Java-Priority-Queue>
2. <https://leetcode.com/problems/top-k-frequent-words/description/>