

```
// https://leetcode-cn.com/problems/zui-chang-bu-han-zhong-fu-zi-fu-de-zi-zi-fu-chuan-lcof/
```

```
func lengthOfLongestSubstring(s string) int {
    lastOccurred := make(map[byte]int)
    start := 0
    maxLength := 0
    for i, ch := range []byte(s) {
        lastI := 0
        ok := false
        if lastI, ok = lastOccurred[ch]; ok && lastI >= start {
            start = lastI + 1
        }
        //fmt.Printf("i = %v, ch = %v, lastI = %v, ok = %v, start = %v, lastOccurred = %v",
        // i, ch, lastI, ok, start, lastOccurred)
        //fmt.Println();

        if i - start + 1 > maxLength {
            maxLength = i - start + 1
        }

        lastOccurred[ch] = i
    }
    return maxLength
}
```

例：寻找最长不含有重复字符的子串

对于每一个字母x

- ◆ lastOccurred[x]不存在，或者 $< \text{start}$ → 无需操作
- ◆ lastOccurred[x] $\geq \text{start}$ → 更新start
- ◆ 更新lastOccurred[x]，更新maxLength

