# 5-function

- Alt + 6: Problems on the status bar
- SonarLint on the status bar

## game-of-life.c

- SonarLint 引入函数的用途

## leap.c

- 函数封装的概念
- Code Style
  - 华为 C 语言指南
  - google code style
  - docs comments
- function definition
  - formal parameters
  - return
    - remove is_prime (indicator variables)
  - actual arguments
  - pass by values
- storage duration (存储期)
  - automatic (not initialized automatically)
  - static (initialized automatically)
- scopes (lifetime; 作用域, 生命周期)
  - block scopes
  - file scopes
- variables
  - local variables
  - global (external) variables
  - hidden (avoid this!!!)
- function declaration

## primes.c

- return

## stars.c

- void: no return vs. return;
- return in-between

## binary-search.c

- array as parameters
- break => return
- remove index (indicator variables)
- const int dict[]

## palindrome.c

- remove is_palindrome indicator variables
- C string vs. char array
  - without the len parameter
  - strlen

## selection-sort.c

- function calls functions
- non-const int arr[]
  - double return values
- GetMinIndex
- Swap
  - pass by values
  - pointers/addresses
  - explain why modifying an array works

## merge.c

- TODO: Leave to Students
- const

## game-of-life.c

- 2D-array

(void)

static