Lab 05. Algorithm & Recursive

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Outline

- Exam
- ► Hw.4 Special Case
- ► Recursive & Time Complexity
- Practice

Exam @ 共同 & 管一三樓電腦教室

- ▶本周一範圍 With searching and sorting
- ▶ 管院(非資管系) & 經濟系: 管院三樓電腦教室
- ▶其他系所+資管系:共同 101
- ▶考古題?

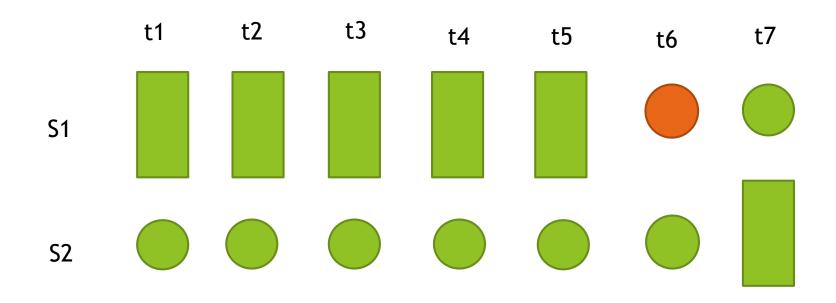
Hw. Review

- ► Run Time Error?
- Array ?

```
int array[100];
for(int i=1; i<=100;i++){
    array[i] ......
}
a[100]</pre>
```

Hw.4 Problem 3. Problem 4.

Hw4 - Problem4 - Special Case



Algorithm & Complexity

- ► Algorithm ?
 - ► Time / Space Complexity
- Worst Case
- ▶ Big O Notation E.g. O(n)
- ► Find Loop

Time Count

- # include<ctime>
- clock_t / clock()
- ► CLOCK_PER_SEC

Practice: Joseph Ring

▶N個人排成一個圓圈,從第一個人開始每 K 個人離開,請問最後留下來的人編號為?(K = 2)

Recursive Solve

- F(n) = F(n-1) + 2?
- **▶** O(1) ?