Planning   1. Inspection ID _____   Date _____

1. Inspection ID   _____第四組_____   _____2016/5/13_____

2. Team

Moderator   _____蔡和容_____   _____

Author   _____   _____

Reviewers   (1) _____蔡和容_____   (4) _____

(2) _____文祥宇_____   (5)_____

(3) _____   (6)_____

3. Documents

Work products   (1)_____scedule.c_____   (4) _____

(2) _____   (5)_____

(3) _____   (6)_____

References   (1)_____   (2) _____

Checklists   (1) <u>Classification of Fault Types</u>   (3) _____

(2) _____   (4)_____

4. Meetings   Date   Location   Start   End

Orientation   __2016/5/13__   __dream lab__   __6:30 pm_   ___9:30 pm__

Review Meeting   __2016/5/13__   __dream lab__   __9:30 pm_   ___1:30 am___

5. Planning   ☐ References obtained for work product.

Objectives   ☑ Checklists obtained for work product.

☑ Moderator is trained in Formal Technical Review procedure.

☑ Team members agree to proposed times/dates.

☑ Moderator's quick review yields less than 5 major issues.

☑ Reviewers understand responsibilities and are committed.

6. Planning Effort   _____300_____minutes

Orientation   7. Prep. Goals   _____min/pkg X _____pgs. = _____prep.min/reviewer

7. Prep. Goals   __20____min/pkg x ____12___pgs. = _____240_____
prep.min/reviewer

8. Orientation   ☑ Reviewers understand scope and purpose of work product.

   Objectives   ☑ Reviewers understand checking process, checklists, and references.

                    ☑ Work product, references, checklists and checking forms provided.

9. Orient. effort   _240____minutes X _2_ participants = ___480_____minutes

Preparation   10. Inspection ID   4   11. Document   schedule.c
              12. Reviewer ID 102062126   13. Reviewer name   文祥宇

14. Critical, Severe and Moderate Issues

Num	Location	Severity	Chk/Ref	Description
1	5	4	Forgotten cases or steps	#include <stdlib.h> for malloc function
2	8	5	Unnecessary function	no this line, otherwise NULL will be redefined
3	32	1	Forgotten cases or steps	add ';', 'L'ist <-L need to be upper case
4	43	2	Inconsistencies	(Ele*), not (Ele)
5	46	2	Inconsistencies	ele->val, not ele.val
6	65	3	Output data incorrect or missing	list, not (list->first)
7	73	1	Redundant items	don't need ';' at the end of this line
8	77	4	Logic problem	shouldn't use '&& false' in expression, otherwise this 'if condition' will be useless
9	105	2	Inconsistencies	f_list->first, not f_list->forst
10	131	3	Equation insufficient or incorrect	left side of the assignment: d_ele->prev->next, not d_ele->next->next
11	135	3	Operator in equation incorrect	mem_count--, not mem_count++
12	148	4	Redundant items	don't need this line
13	154	3	Equation insufficient or incorrect	need to open MAXPRIO+1, not MAXPRIO-1
14	156	3	Forgotten cases or steps	eed to initialize this function first for 'finish_process()' use (line 160)
15	165	2	Inconsistencies	num_processes, not num_process
16	172	3	Inconsistencies	initialize 'k' here for 'for loop' use, delete initialize of i because it is unused
17	176	3	Input data incorrect or missing	no 'total' in ()
18	177	1	Add new capability	for UI look friendly! not a bug in original code!
19	179	4	Variable-type incorrect	need to initialize this function type => void
20	184	4	Logic problem	i=MAXPRIO, not i==MAXPRIO
21	191	2	Parentheses used incorrectly	lost a '}' in original code(for 'for loop')
22	204	3	Operator in equation incorrect	>= , not <=
23	219	2	Parentheses used incorrectly	lost a '}' in original code(for 'if-clause')
24	280	3	Inconsistencies	del_ele(..., ...), not del(..., ...)
25	310	3	Inconsistencies	alloc_proc_num, not alloc_porc_num
26	315	4	Variable-type incorrect	need to write main function's type => void
27				
28				

15. Effort   80   minutes   16. Issues   1   6   10   9   0

Totals   critical   severe   moderate   minor   author Q's

17. Preparation   ☑ Work product has been completely checked.

Objectives   ☑ All critical, severe and moderate issues are noted on this form.

☑ All minor issues and author questions are noted on the work product.

Preparation   10. Inspection ID __4__   11. Document _schedule.c_
             12. Reviewer ID 102062340   13. Reviewer name ___蔡和容___

14. Critical, Severe and Moderate Issues

Num	Location	Severity	Chk/Ref	Description
1	5	4	Forgotten cases or steps	標頭檔少#include <stdlib.h> 不然不能用 malloc
2	8	5	Unnecessary function	不能自己定義 NULL
3	32	1	Forgotten cases or steps	句尾少分號且"L"必須是大寫
4	43	2	Inconsistencies	應為 Ele*
5	46	2	Inconsistencies	應為 ele->val
6	73	1	Redundant items	不能加分號
7	77	4	Logic problem	錯誤邏輯，&&false 會讓 if 判斷永遠都錯誤
8	105	2	Inconsistencies	錯字，應為 first
9	135	3	Operator in equation incorrect	計算錯誤，應為 mem_count--
10	156	3	Forgotten cases or steps	function 應先初始化
11	165	2	Inconsistencies	錯字，應為 num_processes
12	172	3	Inconsistencies	應該是 k 才對，沒有用到 i
13	179	4	Variable-type incorrect	型態是 void
14	184	4	Logic problem	非"=="而是"="
15	191	2	Parentheses used incorrectly	少一個右括號"}"
16	204	3	Operator in equation incorrect	判斷錯誤，應為>=
17	219	2	Parentheses used incorrectly	少一個右括號"}"
18	280	3	Inconsistencies	函式應為 del_ele()
19	310	3	Inconsistencies	錯字，應為 alloc_proc_num
20	315	4	Variable-type incorrect	main 的型態為 void

15. Effort _90_ minutes   16. Issues   _2_   _5_   _10_   _9_   9

              Totals   critical   severe   moderate   minor   author Q's

17. Preparation   ☑ Work product has been completely checked.

   Objectives   ☑ All critical, severe and moderate issues are noted on this form.

              ☑ All minor issues and author questions are noted on the work product.

Review   Aggregate Checking Data

Meeting

	R1	R2	R3	R4	R5		Total	
18. Prep. Effort	80 +	90 +	___ +	___ +	___	=	170	minutes
19. #Critical Iss.	1 +	2 +	___ +	___ +	___	=	3	issues
20. #Severe Iss.	6 +	5 +	___ +	___ +	___	=	11	issues
21. #Moder. Iss.	10 +	10 +	___ +	___ +	___	=	20	issues
22. #Minor Iss.	9 +	9 +	___ +	___ +	___	=	18	issues
22. #Author Q's	0 +	9 +	___ +	___ +	___	=	9	questions

23. Consolidated list of critical, severe and moderate issues

Num	Location	Severity	Chk/Ref	Description
1	5	4	Forgotten cases or steps	標頭檔少#include <stdlib.h>不然不能用 malloc
2	8	5	Unnecessary function	不能自己定義 NULL
3	32	1	Forgotten cases or steps	句尾少分號且"L"必須是大寫
4	43	2	Inconsistencies	應為 Ele*
5	46	2	Inconsistencies	應為 ele->val
6	65	3	Output data incorrect or missing	只要回傳 list 就好
7	73	1	Redundant items	不能加分號
8	77	4	Logic problem	錯誤邏輯，&&false 會讓 if 判斷永遠都錯誤
9	105	2	Inconsistencies	錯字，應為 first
11	131	3	Equation insufficient or incorrect	左方應為 d_ele->prev->next
10	135	3	Operator in equation incorrect	計算錯誤，應為 mem_count--
12	148	4	Redundant items	不需要 free(self);
13	154	3	Equation insufficient or incorrect	應為 MAXPRIO+1
14	156	3	Forgotten cases or steps	function 應先初始化
15	165	2	Inconsistencies	錯字，應為 num_processes
16	172	3	Inconsistencies	應該是 k 才對，沒有用到 i
17	176	3	Input data incorrect or missing	不用傳 total 進去
18	177	1	Add new capability	新增換行，讓輸出更好看
19	179	4	Variable-type incorrect	型態是 void
20	184	4	Logic problem	非"=="而是"="
21	191	2	Parentheses used incorrectly	少一個右括號"}"
22	204	3	Operator in equation incorrect	判斷錯誤，應為>=
23	219	2	Parentheses used incorrectly	少一個右括號"}"
24	280	3	Inconsistencies	函式應為 del_ele()
25	310	3	Inconsistencies	錯字，應為 alloc_proc_num
26	315	4	Variable-type incorrect	main 的型態為 void
27				

24. Review Meeting   ☑ All reviewers present. List absent reviewer ID's: _____
    Objectives   ☑ All reviewers prepared sufficiently for meeting.
                     ☑ All issues noted by Scriber and understood by Author for rework.
                     ☑ Any problems with inspection process have been noted.

25. R.M. effort   ____120____ minutes x ____2____ participants = ____240____ minutes

● Inspection Metrics

1. Estimated Total Defects

A = number found by reviewer 102062126 = 26
B = number found by reviewer 102062340 = 20
D = number found by A and B = 26

⇨ Estimated Total Defects = (A*B/C) = 26*20/26=20

2. Yield

Yield = Total Defects Found / Estimated Total Defects = 26/ 30=0.866

3. Defect Density

Defect Density = Total Defects Found / Size = 26/12 = 2.166 (defects/page)

4. Inspection Rate

Inspection Rate = Size / total inspection hours
 = 26/ (80+90) + 240 = 0.0634146341 (pages/hour)

5. Defect

Total defects found = A+B-C, where A and B are the number found by A and B respectively, C is the number found by both A and B. Thus, our total defect is 26.

6. Finding Efficiency

Finding Efficiency = total defects found / total inspection hours
= 26 / (80+90)
= 26/170
= 0.153