Planning

1.Inspection ID 04 Date 2016/5/14

2.Team

Moderator 黃詣典

Author someone

Reviewers (1)黃詣典

(2)邱柏森

3.Documents

Work products print\_tokens2.c

References

Checklists Classification of Fault Types.pdf

4.Meeting

Orient 2016/5/8 資電326 15:10~15:20

Review Meeting 2016/5/13 資電326 18:00~19:35

5. Planning o References obtained for work product.

Objectives o Checklists obtained for work product.

o Moderator is trained in Formal Technical Review procedure.

o Team members agree to proposed times/dates.

o Moderator’s quick review yields less than 5 major issues.

o Reviewers understand responsibilities and are committed.

6. Planning Effort 30 minutes

Orient

7.Prep.Goals 25 min/pkg x 15pgs = 375 prep.min/reviewer

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

o Reviewers understand checking process, checklists, and references.

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

9.Orient. effort 10 minutes x 2 participants = 20 minutes

Preparation 10. Inspection ID 04 11. Document

12. Reviewer ID 102062233 13. Reviewer name 邱柏森

14.Critical, Severe and Moderate Issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Num | Location | Severity | Chk/Ref | Description |
| 1 | 63 | moderate | Logic problem | open for read first, not for write |
| 2 | 95 | severe | Forgotten declar | undeclared parameter |
| 3 | 154 | moderate | Unnecessary variable | useless parameter |
| 4 | 164 | minor | No semicolon | syntax error about less ; |
| 5 | 174 | critical | Logic problem | wrong assignment |
| 6 | 175 | critical | Logic problem | wrong assignment |
| 7 | 178 | severe | Logic problem | pass with empty value |
| 8 | 183 | severe | Logic problem | pass with empty value |
| 9 | 189 | critical | Logic problem | cannot return before statement |
| 10 | 211 | minor | Missing operator | initialize value with two equal |
| 11 | 214 | moderate | Logic problem | syntax error about "&& FALSE" |
| 12 | 252 | severe | Unnecessary function | cannot use undeclared function |
| 13 | 284 | moderate | Wrong function use | less "," in function statement |
| 14 | 314 | minor | Checking wrong variable | value do not follow the comment |
| 15 | 331 | moderate | Unnecessary function | useless statement |
| 16 | 346 | minor | Missing operator | syntax error about less "=" in if expression |
| 17 | 346 | minor | Parentheses used incorrectly | syntax error about more one ")" |
| 18 | 390 | minor | No semicolon | syntax error about less ; |
| 19 | 413 | minor | Parentheses used incorrectly | syntax error about less one ")" |
| 20 | 432 | severe | Wrong function use | should not pass fp into fprintf |
| 21 | 484 | critical | Unnecessary function | declare function repeatedly |
| 22 | 503 | critical | Logic problem | wrong return time, below statement never execute |

15.Effort 150 minutes 16. Issues 5 critical 5 severe 5 moderate 7 minor

17. Preparation v Work product has been completely checked.

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

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

Preparation 10. Inspection ID 04 11. Document

12. Reviewer ID 102062114 13. Reviewer name 黃詣典

14.Critical, Severe and Moderate Issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Num | Location | Severity | Chk/Ref | Description |
| 1 | 63 | moderate | Logic problem | open for read first, not for write |
| 2 | 81 | minor | No semicolon | syntax error about less ; |
| 3 | 95 | severe | Forgotten declar | undeclared parameter |
| 4 | 96 | moderate | Logic problem | wrong variable |
| 5 | 111 | minor | Unnecessary function | no use function |
| 6 | 130 | minor | Unnecessary variable | no use variable |
| 7 | 132 | minor | Unnecessary variable | no use variable |
| 8 | 155 | moderate | Logic problem | wrong constent |
| 9 | 160 | severe | Logic problem | != -> == |
| 10 | 214 | moderate | Logic problem | syntax error about "&& FALSE" |
| 11 | 252 | severe | Unnecessary function | cannot use undeclared function |
| 12 | 284 | moderate | Wrong function use | less "," in function statement |
| 13 | 314 | minor | Checking wrong variable | value do not follow the comment |
| 14 | 331 | moderate | Unnecessary function | useless statement |
| 15 | 346 | minor | Missing operator | syntax error about less "=" in if expression |
| 16 | 346 | minor | Parentheses used incorrectly | syntax error about more one ")" |
| 17 | 413 | minor | Parentheses used incorrectly | syntax error about more one ")" |
| 18 | 432 | moderate |  | do not need to add fp |
| 19 | 484 | moderate | Unnecessary function | double clare the function |
| 20 | 503 | severe | Logic problem | cause the function doesn't work |

15.Effort 200 minutes 16. Issues 0 critical 4 severe 8 moderate 8 minor

17. Preparation v Work product has been completely checked.

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

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

Review

Meeting (only 1 review meeting)

18. Prep. Effort 95 minutes

19. #Critical iss 3

20. #Severe Iss 6

21. #Moder Iss 9

22. #Minor Iss 11

23 Consolidated list of critical, severe and moderate issues

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Num | Location | Severity | Chk/Ref | Description |
| 1 | 63 | moderate | Logic problem | open for read first, not for write |
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| 12 | 174 | critical | Logic problem | wrong assignment |
| 13 | 175 | critical | Logic problem | wrong assignment |
| 14 | 178 | severe | Logic problem | pass with empty value |
| 15 | 183 | severe | Logic problem | pass with empty value |
| 16 | 189 | critical | Logic problem | cannot return before statement |
| 17 | 211 | minor | Missing operator | initialize value with two equal |
| 18 | 214 | moderate | Logic problem | syntax error about "&& FALSE" |
| 19 | 252 | severe | Unnecessary function | cannot use undeclared function |
| 20 | 284 | moderate | Wrong function use | less "," in function statement |
| 21 | 314 | minor | Checking wrong variable | value do not follow the comment |
| 22 | 331 | moderate | Unnecessary function | useless statement |
| 23 | 346 | minor | Missing operator | syntax error about less "=" in if expression |
| 24 | 346 | minor | Parentheses used incorrectly | syntax error about more one ")" |
| 25 | 390 | minor | No semicolon | syntax error about less ; |
| 26 | 413 | minor | Parentheses used incorrectly | syntax error about more one ")" |
| 27 | 432 | moderate |  | do not need to add fp |
| 28 | 484 | moderate | Unnecessary function | double clare the function |
| 29 | 503 | severe | Logic problem | cause the function doesn't work |

24. Review Meeting

v All reviewers present. List absent reviewer ID’s: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

v All reviewers prepared sufficiently for meeting.

v All issues noted by Scriber and understood by Author for rework.

v Any problems with inspection process have been noted.

25. R. M. effort 95 minutes X 2 participants = 190 minutes

Inspection Metrics

Please calculate the following metrics and record the process. (e.g., the formula)

* Estimated Total Defects:

AxB/C，A,B 是各自找到的錯誤，C是共同找到的錯誤

22 x 20 / 13 = 33.846

* Yield:

Total Defects Found / Estimated Total Defect \* 100 %

29 / 33.846 \* 100% = 85.68%

* Defect Density:

Total Defects Found / Size

29(defect) / 15 (pages) = 1.93 defect / page

* Inspection Rate:

Size / total inspection hours

15 / (540min/60) = 1.67 page / hour

* Defect Finding Efficiency:

Total defects found / total inspection hours

29 / 9 = 3.22 defects/hour