Planning

1. Inspection ID	BellmanFord Review
2. Team	
Author	Neeraj Mishra
Reviewers	(1)顏浩昀
	(2)邱煒甯
3. Documents	
Work products	Bellman-Ford.c
References	https://www.codereviewchecklist.com/
Checklists	1. Correctness: Ensure that the code functions as intended and meets the requirements. 2. Readability: Check if the code is well-structured, easy to understand, and follows coding conventions and style guidelines. 3. Maintainability: Assess if the code is modular, reusable, and easy to maintain and update in the future. 4. Performance: Review the code for any potential performance issues, such as inefficient algorithms, excessive memory usage, or unnecessary iterations. 5. Security: Look for potential vulnerabilities, such as input validation issues, insecure coding practices, or lack of proper authentication and authorization mechanisms. 6. Error Handling:

Verify if the code handles errors and exceptions properly, with appropriate error messages and logging.

7. Testing: Ensure that the code has been adequately tested and that unit tests, integration tests, and other relevant test cases have been written and passed.

8. Documentation: Check if the code is well-documented, including comments within the code, API documentation, and any necessary user documentation.

9. Code Style and Standards: Verify if the code follows established coding standards and style guidelines for the particular programming language or project.

10. Scalability: Consider if the code is designed to handle increasing workloads or future growth, and if it efficiently utilizes system resources.

4. Meetings	Date	Location	Start	End
Orientation	2023/05/12	Online	16:00	19:00
Review Meeting	2023/05/15	Online	15:00	18:00

5. Planning Objectives

- ◯ References obtained for work product.
- ◯ 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 60 minutes

Orientation

7. Prep. Goals 60 min/pg. * 1 pgs. = 60 prep.min

8. Orientation Objectives
- ◯ Reviewers understand scope and purpose of work product.
- ◯ Reviewers understand checking process, checklists, and references.
- ◯ Work product, references, checklists and checking forms provided.

9. Orient. effort 60 minutes * 2 participants = 120 minutes

Preparation

10. Inspection ID	BellmanFord Review	11. Document	Bellman-Ford.c
12. Reviewer ID	108072244	13. Reviewer name	邱煒甯

14. Critical, Severe and Moderate Issues

Num	*Location*	*Severity*	*Chk/Ref*	*Description*
1	35	severe	1	type “Struct Edge” should be type “Struct Edge*” before malloc
2	38	severe	1	should return a “Graph*” type object instead of “void”
3	48	moderate	2	should have indent
4	51	critical	1	miss “}” to end “FinalSolution ”
5	56	severe	1	E=graph->E
6	58	critical	1	should use [] instead of ()
7	65	severe	5	it should be i<V in for loop or it makes infinite loop
8	73	severe	1	j++
9	82	critical	1	assign needs to use = not ==
10	102	critical	1	function name error
11	111	moderate	2	沒有縮排造成可讀性不佳
12	114	moderate	2	沒有縮排造成可讀性不佳
13	117	moderate	2	沒有縮排造成可讀性不佳
14	118	moderate	2	沒有縮排造成可讀性不佳
15	118	severe	1,5	it should be S instead of &S
16	120	critical	1	參數之間沒有逗號
17	130	critical	1	function參數傳遞順序錯誤
18	131	severe	1,5	no return value of main function

15. Effort 50 minutes

16. Issues	critical	severe	moderate	minor	author Q's
Totals	6	7	5	0	

17. Preparation Objectives

- ◯ Work product has been completely checked.
- ◯ 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	BellmanFord Review	11. Document	Bellman-Ford.c
12. Reviewer ID	108062213	13. Reviewer name	顏浩昀

14. Critical, Severe and Moderate Issues

Num	*Location*	*Severity*	*Chk/Ref*	*Description*
1	12	moderate	2,3	comment indice
2	14	critical	1	expected ';' after struct
3	28	critical	1	no struct graph exist
4	28	critical	1	miss ')'
5	35	critical	1	'->>' should be '->'
6	35	severe	1	type "Struct Edge" should be type "Struct Edge*" before malloc
7	38	severe	1	should return a "Graph*" type object instead of "null"
8	48	moderate	2	should have indent
9	51	critical	1	miss "}" to end "FinalSolution "
10	51	severe	1	int dist should be int dist[]
11	51	severe	1	it should be %d instead of %f because dist is a integer array
12	56	severe	1	E=graph->E
13	58	critical	1	should use [] instead of ()
14	73	severe	1	j++
15	82	critical	1	assign needs to use = not ==
16	102	critical	1	function name error

15. Effort 50 minutes

16. Issues	critical	severe	moderate	minor	author Q's
Totals	8	6	2	0	

17. Preparation Objectives

- ◯ Work product has been completely checked.
- ◯ All critical, severe and moderate issues are noted on this form.
- ◯ All minor issues and author questions are noted on the work product.

Review Meeting

Aggregate Checking Data

	R1		R2		R3		Total	unit
18. Prep. Effort	50	+	50	+	0	=	100	(minutes)
19. #Critical Iss.	8	+	6	+	0	=	10	(issues)
20. #Severe Iss.	6	+	7	+	0	=	9	(issues)
21. #Moder. Iss.	2	+	5	+	0	=	6	(issues)
22. #Minor Iss.	0	+	0	+	0	=	0	(issues)
23. #Author Q's	0	+	0	+	0	=	0	(questions)

24. Consolidated list of critical, severe and moderate issues

Num	*Location*	*Severity*	*Chk/Ref*	*Description*
1	12	moderate	2,3	comment indice
2	14	critical	1	expected ';' after struct
3	28	critical	1	no struct graph exist
4	28	critical	1	miss ')'
5	35	critical	1	'->>' should be '->'
6	35	severe	1	type "Struct Edge" should be type "Struct Edge*" before malloc
7	38	severe	1	should return a "Graph*" type object instead of "null"
8	48	moderate	2	should have indent
9	51	critical	1	miss "}" to end "FinalSolution "
10	51	severe	1	int dist should be int dist[]
11	51	severe	1	it should be %d instead of %f because dist is a integer array
12	56	severe	1	E=graph->E
13	58	critical	1	should use [] instead of ()
14	65	severe	5	it should be i<V in for loop or it makes infinite loop
15	73	severe	1	j++
16	82	critical	1	assign needs to use = not ==
17	102	critical	1	function name error
18	111	moderate	2	沒有縮排造成可讀性不佳
19	114	moderate	2	沒有縮排造成可讀性不佳
20	117	moderate	2	沒有縮排造成可讀性不佳
21	118	moderate	2	沒有縮排造成可讀性不佳
22	118	severe	1,5	it should be S instead of &S
23	120	critical	1	參數之間沒有逗號
24	130	critical	1	function參數傳遞順序錯誤
25	131	severe	1,5	no return value of main function

25. Review Meeting Objectives

- ◯ All reviewers present. List absent reviewer ID's: _____
- ◯ 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.

26. R.M. effort 40 minutes * 2 participants = 80 minutes