

Problem 5

Source Code Review

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1 Assigned Function - x^y

1.1 Standard Guidelines

The source code review is based on the standard practices that a developer has used while writing the code. The coverage of all standard guidelines on which the report has generated is listed below.

1. The code should eliminate nested if statement.
2. The code should follow a coding style guide.
3. The code should have meaningful method and variable names.
4. The author should annotate the comments not exceeding 10 to 20 lines.
5. The class program should not import unnecessary packages.
6. The code should have low coupling and high cohesion.
7. The code should avoid the global scoping for common variables and functions.
8. The code should avoid memory leakage.
9. The code should narrow the variable scope as far as possible in the code.
10. Usage of mutable variable over creating new variables in object oriented language.

1.2 Review Approach

Used Approach - Lightweight Code Review

- Walk-through the code.
- Executed the code in run time environment and also used debugger.
- Inspection on comment length, Checking dependencies among the components, Check on unused variables.
- Observing global scoping of the functions and variables.

1.3 Results

No.	Description	Result
1	Use of annotation in the code	PASS
2	No usage of nested ifs statement	PASS
3	No unused variable found	PASS
4	No memory leakage	PASS
5	Usage of meaningful method and variable names	PASS
6	Not exceeding source line of code	PASS
7	No deadlock encountered	PASS
8	No dependency found in the code	PASS
9	No Error found in the code	PASS
9	No Warning found in the code	PASS
10	No unnecessary package is included in the code	PASS

1.4 Conclusion

Overall, the code is well-structured and well-written. It is clear from the code that readability is a developer's primary focus. The only suggestion I have is to retain logs because they can help with debugging.