

Test ID	Description	Expected Results	Actual Results
One Function, No Documentation	The program will be given a file that only contains a single java function with no documentation.	The program should produce a file with relevant documentation for the single function.	The program correctly produced a file with documentation for the function.
One Function, Existing Documentation	The program will be given a file that contains a single java function with documentation already written.	The program should produce a file that is not changed.	The program failed by writing documentation for the previously documented function.
Two Functions, No Documentation	The program will be given a file that contains two java functions with no documentation.	The program will produce a file with relevant documentation for both functions.	The program correctly produced a file with documentation for both functions.
Two Functions, One With Documentation and One Without	The program will be given a file with two java functions. One of the java functions will already have documentation and the other will not.	The program will produce a file with documentation for the function that did not have documentation already while leaving the documentation for the other function unchanged.	The program partially succeeded. It produced documentation for the undocumented function, but it also produced documentation for the function that already had documentation.
Two Functions, Both With Documentation	The program will be given a file with two java functions with documentation.	The program will produce a file that is not changed.	The program failed by writing documentation for both functions. which were both previously documented.
Empty File	The program will be given an empty file.	The program will produce an empty file.	The program passed by not producing any documentation.
One Variable, Nothing Else	The program will be given a file that contains a single java variable and no functions.	The program will produce a file that is not changed.	The program passed by not producing any documentation.
One Function, One	The program will	The program will	The program passed

Variable	be given a file that contains one java variable and one java function without documentation.	produce a file that contains documentation for the function but not for the variable.	by providing documentation for the function and not for the variable.
Many Functions, No Documentation	The program will be given a file with 5 or more functions with no documentation.	The program will produce a file with documentation for all of the functions provided.	The program passed by providing documentation for all of the functions provided.
Many Functions, Some Documentation, Multiple Variables	The program will be given a file with 5 or more functions and many variables interspersed among the functions. Some of these functions will already have documentation while others will not.	The program will produce a file with documentation added to the functions that did not have it. The documentation for the functions that already had documentation should not be changed. None of the variables will have documentation.	The method partially succeeds. It provides documentation for the functions without documentation, but it also provides documentation for the functions that already had it.

#### Final Results:

The program passed 6 of the tests, partially passed 2 of them, and failed 2 of them. The main issue that was uncovered is that the system does not correctly recognize when documentation has already been provided.