



Tutorial Name

Based on AST in Assignment 2, create class NameExercise in file NameExercise.py in folder src/main/mp/checker as a subclass of BaseVisitor and implement the following questions:

Question 1.

Write a method of this class such that it returns the list of global variable declaration? Modify run.py, TestUtils.py and create ExerciseSuite.py to test your code. The instruction to test your code is "python run.py test Ex1Suite"

Question 2.

Change the method in Question 1 so that it can check if there is any duplication of the name of variables in the list? If there is a duplication, the exception Redeclared variable should be raised. Modify run.py, TestUtils.py and create ExerciseSuite.py to test your code. The instruction to test your code is "python run.py test Ex2Suite"

Question 3.

Write some suitable methods of this class such that it can check if there is any duplication in parameter declaration in a function? Modify run.py, TestUtils.py and create ExerciseSuite.py to test your code. The instruction to test your code is "python run.py test Ex3Suite"

Question 4.

Write some suitable methods of this class such that it can check if there is any duplication in local variable declaration in a function? Modify run.py, TestUtils.py and create ExerciseSuite.py to test your code. The instruction to test your code is "python run.py test Ex4Suite"