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Lab 5 - Static Analysis
Date: 16-03-2022

Tools and Repository:

Static Analysis Tool: pylint
Github Repository: https://github.com/rishabh1005/Algorithmic-Toolbox

At first, I clone the github repository and installed pylint.

```
C:\Users\student>git clone https://github.com/TheAlgorithms/Python.git
Cloning into 'Python'...
remote: Enumerating objects: 16064, done.
remote: Counting objects: 100% (94/94), done.
remote: Compressing objects: 100% (82/82), done.
remote: Total 16064 (delta 26), reused 55 (delta 11), pack-reused 15970
Receiving objects: 100% (16064/16064), 13.21 MiB | 8.86 MiB/s, done.
Resolving deltas: 100% (9499/9499), done.

C:\Users\student>pip install pylint
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pylint in c:\users\student\appdata\roaming\python\python310\site-packages (2.14.5)
Requirement already satisfied: platformdirs>=2.2.0 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (2.5.2)
Requirement already satisfied: tomli>=1.1.0 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (2.0.1)
Requirement already satisfied: colorama>=0.4.5 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (0.4.5)
Requirement already satisfied: mccabe<0.8,>=0.6 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (0.7.0)
Requirement already satisfied: dill>=0.2 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (0.3.5.1)
Requirement already satisfied: tomlkit>=0.10.1 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (0.11.4)
Requirement already satisfied: astroid<=2.12.0-dev0,>=2.11.6 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (2.11.7)
Requirement already satisfied: isort<6,>=4.2.5 in c:\users\student\appdata\roaming\python\python310\site-packages (from pylint) (5.10.1)
Requirement already satisfied: wrapt<2,>=1.11 in c:\users\student\appdata\roaming\python\python310\site-packages (from astroid<=2.12.0-dev0,>=2.11.6->pylint) (1.14.1)
Requirement already satisfied: setuptools>=20.0 in c:\program files\python310\lib\site-packages (from astroid<=2.12.0-dev0,>=2.11.6->pylint) (58.1.0)
Requirement already satisfied: lazy-object-proxy>=1.4.0 in c:\users\student\appdata\roaming\python\python310\site-packages (from astroid<=2.12.0-dev0,>=2.11.6->pylint) (1.7.1)
```

Performing static Analysis and error understanding

1. https://github.com/rishabh1005/Algorithmic-Toolbox/blob/master/week2_algorithmic_warmup/5_fibonacci_number_again/fibonacci_huge.py

   Tool Output:

```
C:\Users\student>pylint .\Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py
************* Module fibonacci_huge
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:20:0: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:1:0: C0114: Missing module docstring (missing-module-docstring)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:4:0: W0105: String statement has no effect (pointless-string-statement)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:16:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:16:24: C0103: Argument name "m" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:16:24: W0621: Redefining name 'm' from outer scope (line 42) (redefined-outer-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:21:4: C0103: Variable name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:21:6: C0103: Variable name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:23:8: C0103: Variable name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:23:10: C0103: Variable name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:16:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:27:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:27:28: C0103: Argument name "n" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:27:30: C0103: Argument name "m" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:27:28: W0621: Redefining name 'n' from outer scope (line 42) (redefined-outer-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:27:30: W0621: Redefining name 'm' from outer scope (line 42) (redefined-outer-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:33:4: C0103: Variable name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:33:6: C0103: Variable name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:35:8: C0103: Variable name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:35:10: C0103: Variable name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week2_algorithmic_warmup\5_fibonacci_number_again\fibonacci_huge.py:2:0: W0611: Unused import sys (unused-import)

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Your code has been rated at 0.87/10
```

2. https://github.com/rishabh1005/Algorithmic-Toolbox/blob/master/week3_greedy_algorithms/6_maximum_number_of_prizes/different_summands.py

Tool Output:

```
C:\Users\student>pylint .\Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py
************* Module different_summands
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:1:0: C0114: Missing module docstring (missing-module-docstring)
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:4:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:4:21: C0103: Argument name "n" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:4:21: W0621: Redefining name 'n' from outer scope (line 19) (redefined-outer-name)
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:5:4: W0621: Redefining name 'summands' from outer scope (line 20) (redefined-outer-name)
Algorithmic-Toolbox\week3_greedy_algorithms\6_maximum_number_of_prizes\different_summands.py:2:0: W0611: Unused import sys (unused-import)

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Your code has been rated at 6.47/10
```

3. https://github.com/rishabh1005/Algorithmic-Toolbox/blob/master/week5_dynamic_programming1/5_longest_common_subsequence_of_three_sequences/lcs3.py

Tool Output:

```
C:\Users\student>pylint .\Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py
************* Module lcs3
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:7:14: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:8:14: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:9:14: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:10:50: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:11:34: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:13:29: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:14:33: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:15:37: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:16:48: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:18:0: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:19:61: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:21:0: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:22:21: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:23:81: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:25:36: C0303: Trailing whitespace (trailing-whitespace)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:1:0: C0114: Missing module docstring (missing-module-docstring)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:28:4: W0622: Redefining built-in 'input' (redefined-builtin)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:9: C0103: Argument name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:11: C0103: Argument name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:13: C0103: Argument name "c" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:9: W0621: Redefining name 'a' from outer scope (line 32) (redefined-outer-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:11: W0621: Redefining name 'b' from outer scope (line 36) (redefined-outer-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:5:13: W0621: Redefining name 'c' from outer scope (line 40) (redefined-outer-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:7:4: C0103: Variable name "m" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:8:4: C0103: Variable name "n" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:9:4: C0103: Variable name "o" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:10:4: C0103: Variable name "d" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:7:4: W0612: Unused variable 'm' (unused-variable)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:8:4: W0612: Unused variable 'n' (unused-variable)
Algorithmic-Toolbox\week5_dynamic_programming1\5_longest_common_subsequence_of_three_sequences\lcs3.py:9:4: W0612: Unused variable 'o' (unused-variable)

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Your code has been rated at 0.00/10
```

4. https://github.com/rishabh1005/Algorithmic-Toolbox/blob/master/week6_dynamic_programming2/2_partitioning_souvenirs/partition3.py

Tool Output:

```
C:\Users\student>pylint .\Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py
************* Module partition3
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:28:0: C0305: Trailing newlines (trailing-newlines)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:1:0: C0114: Missing module docstring (missing-module-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:25:4: W0622: Redefining built-in 'input' (redefined-builtin)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:5:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:5:15: C0103: Argument name "A" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:5:15: W0621: Redefining name 'A' from outer scope (line 26) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:6:4: C0103: Variable name "W" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:7:4: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:17:44: C0321: More than one statement on a single line (multiple-statements)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:18:39: C0321: More than one statement on a single line (multiple-statements)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:20:8: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:20:20: C0321: More than one statement on a single line (multiple-statements)
Algorithmic-Toolbox\week6_dynamic_programming2\2_partitioning_souvenirs\partition3.py:3:0: W0611: Unused import itertools (unused-import)

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Your code has been rated at 4.58/10
```

5. https://github.com/rishabh1005/Algorithmic-Toolbox/blob/master/week6_dynamic_progra
mming2/3_maximum_value_of_an_arithmetic_expression/placing_parentheses.py

Tool Output:

```
C:\Users\student>pylint .\Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py
************* Module placing_parentheses
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:1:0: C0114: Missing module docstring (missing-module-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:2:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:2:10: C0103: Argument name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:2:13: C0103: Argument name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:2:16: C0103: Argument name "op" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:2:16: W0621: Redefining name 'op' from outer scope (line 43) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:3:4: R1705: Unnecessary "elif" after "return", remove the leading "el" from "elif" (no-else-return)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:0: C0103: Function name "MinAndMax" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:14: C0103: Argument name "M" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:17: C0103: Argument name "m" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:26: C0103: Argument name "op" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:20: W0621: Redefining name 'i' from outer scope (line 44) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:12:26: W0621: Redefining name 'op' from outer scope (line 43) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:16:8: C0103: Variable name "a" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:17:8: C0103: Variable name "b" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:18:8: C0103: Variable name "c" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:19:8: C0103: Variable name "d" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:24:0: C0116: Missing function or method docstring (missing-function-docstring)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:24:27: C0103: Argument name "op" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:24:22: W0621: Redefining name 'num' from outer scope (line 43) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:24:27: W0621: Redefining name 'op' from outer scope (line 43) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:30:8: W0621: Redefining name 'i' from outer scope (line 44) (redefined-outer-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:26:4: C0103: Variable name "n" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:27:4: C0103: Variable name "m" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:28:4: C0103: Variable name "M" doesn't conform to snake_case naming style (invalid-name)
Algorithmic-Toolbox\week6_dynamic_programming2\3_maximum_value_of_an_arithmetic_expression\placing_parentheses.py:34:8: C0103: Variable name "s" doesn't conform to snake_case naming style (invalid-name)

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Your code has been rated at 3.08/10
```

Understanding of errors:

1. **W0621**: Name redefinition from outerscope. This mistake indicates that a global variable with the same name as a local variable. By doing this, the global version of the variable is hidden and the local scope is changed to use the local version of the variable.
2. **W0611**: This happens when unutilized shipments When any modules or files are loaded but not used.
3. **C0303**: This occurs when there is an empty area before a new line and at the conclusion of a line.
4. **C0103**: Variable's naming convention does not conform to snake_case

   The defined variable is not named using the snake_case convention, as indicated by this mistake.

5. **C0321**: A string that contains multiple statements. This indicates that a line contains numerous lines. This is not a good practice because lines with only one sentence will make the code easier to understand.