# Evaluation Rubric :

|  |  |  |
| --- | --- | --- |
| **Evaluation parameter** | **Does not meet specifications** | **Meets specifications** |
| **Problem statement** |  |  |
| Problem Statement must be clearly defined |  |  |
| Expected input and output formats must be described |  |  |
| Explain the problem statement with an example(if applicable) |  |  |
| **Expected input & output** |  |  |
| Minimum of 5 test cases (if applicable) |  |  |
| Coverage |  |  |
| Border condition |  |  |
| Unexpected inputs |  |  |
| **Solution** |  |  |
| The correctness of the solution. |  |  |
| Check for all the elements (tokens) of the problem (Assignment, Arithmetic, conditional, relational, input, output etc) |  |  |
| **Trace Table :** |  |  |
| Columns are variables, conditions, print statements |  |  |
| Order |  |  |
| Trace table for each function(If applicable) |  |  |
| labeling the columns |  |  |
| Coverage (conditions, iterations... etc) |  |  |
| **Final Result** |  |  |
| Executable File Submission |  |  |
| **Executable File** |  |  |
| Check with all test cases |  |  |

# 

**Problem Statement**: **(2 Marks)**

Given two strings S1(string) and S2(substring), print the count of the occurrence of a substring(S2) in string(S1)

**Test cases: (3 Marks)**

|  |  |
| --- | --- |
| **Expected Input** | **Expected Output** |
| [1,[1,2]] | 2 |
| [1," ",2," "] | 2 |
| [1,[1,2,3],4] | 7 |
| -1 | invalid |
| [1,2,3,2] | 2 |

**Solution**: **(5 Marks)**

**Step 1:** START

Step 2: a= [ 1,[1,2,3],1]

Step 3: Compute COUNT(a)

Step 4: END

**Trace Table** : **(5 Marks)**

|  |  |
| --- | --- |
| Test case 1: |  |
| a | COUNT(a) |
| [1,[1,2]] | 2 |

|  |  |
| --- | --- |
| Test case 2: |  |
| a | COUNT(a) |
| [1," ",2," "] | 2 |

|  |  |
| --- | --- |
| Test case 3: |  |
| a | COUNT(a) |
| [1,[1,2,3],4] | 7 |

**Final Result :** **(2 Marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Expected input** | **Expected output** | **Actual output** | **Test result** |
| [1,[1,2]] | 2 | 2 | 1 |
| [1," ",2," "] | 2 | 2 | 1 |
| [1,[1,2,3],4] | 7 | 7 | 1 |