Assignment 6. Blackbox Testing
Due: 5/17(Friday), 6pm

Spring 2024

1. We wish to test the following program.

❑ **The program accepts 2 non-empty strings and determines which string has <u>a lower number</u> of vowel characters; a, e, i, o, and u.**

❑ **Example**

When 'Sun' and 'Special' are entered, the program prints 'Sun'.
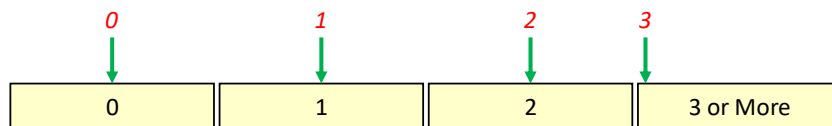When both strings have the same lengths of vowels, the program prints '=='
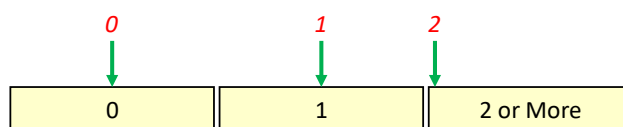
2. Apply Blackbox Testing.

❑ **Define the criteria, i.e. the basis, for applying partitioning. (0 points)**

  ❍ Criteria #1. Number of Input Strings

  ❍ Criteria #2. Length of a String
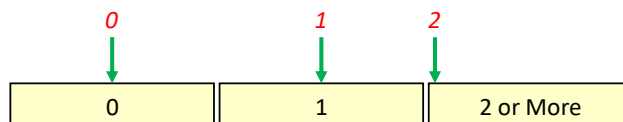
  ❍ Criteria #3. Number of vowels in a String

Criteria #1. Number of Input Strings

0	1	2	3 or More

Criteria #2. Length of a String

0	1	2 or More

Criteria #3. Number of Vowels in a String

0	1	2 or More

❑ **Define partitions for each criterion. (1 points)**

  ❍ Partitions for Criteria #1. Number of Input Strings

    ○ Number of Input Strings = 1

    ○ …

    ○ ….

  ❍ Partitions for Criteria #2. Length of a String

- Length of a String = 0, i.e. Null String
- …
- …..
- Partitions for Criteria #3. Number of Vowels in a String
  - Number of Vowels in a String = 0
  - …

❑ **Derive test cases from the partitions. Consider inter-criteria dependency. Use the following format in writing test cases. Fill in only the white spaces. (2 points)**

❑

Test Cases	String #1	String #2	Expected Output	Actual Output
#1				
#2				
#3				
#…				
…				
Total # of Test Cases	(	) =		

❑ **Compute the total number of test cases in the table of test cases. Show formula and the total. (2 points).**

3. Submission Guidelines

❑ **Use a software tool to draw the diagrams.**

Hand-drawn diagrams are NOT accepted.

❑ **Keep the due date and time.**

Late assignments are NOT accepted.

❑ **Submit your solution on the smart campus site**

❑ **Submit your assignment solution in PDF file.**

Assignments in other formats are NOT accepted.

Use this filename convention for your submission; **SE.A##.홍길동.pdf.**
where ## is the as the assignment number in 2 digits.

❑ **No Plagiarism**

○ Submit your original work. No Plagiarism please!