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| **PLAYSTRINGS TEST PLAN**  **Name: Niyomwungeri Parmenide Ishimwe**  **Emmy Karangwa** | | | |
| **Input** | | **Expected Output** | **Type of Test** |
| "abcde " | " wxyZ" | The first string is: abcde It is 5 characters long. The substring of the first two letters is: ab  The second string is: wxyZ It is 4 characters long. The substring of the last two letters is: yZ  The two strings concatenated together are: abcdewxyZ It is 9 characters long. The index of the first c in the concatenated string is: 2 The combined string with every e replaced with Q is: abcdQwxyZ  The two strings concatenated and in all caps is: ABCDEWXYZ The two strings concatenated and in all lower case is: abcdewxyz | The first input on the 3rd output would yield us the **branch** test  The second input on the 6th output would yield us the **branch** test  If none of the input has the c character, it would yield the **error** test on the 9th output  Also, if e is not included in these inputted strings, it would be an **error** also. |
| "ab " | " yZ" | The first string is: ab It is 2 characters long. The substring of the first two letters is: ab  The second string is: yZ It is 2 characters long. The substring of the last two letters is: yZ  The two strings concatenated together are: abyZ It is 4 characters long. The index of the first c in the concatenated string is: **error! c is not found!** The combined string with every e replaced with Q is: **Error! e is not found!**  The two strings concatenated and in all caps is: ABYZ The two strings concatenated and in all lower case is: abyz | On the third output, the input is two characters, and the output requires at least two therefore this should be the **bounds test.**  On the second input for the 6th output that requires at least two characters, would be a **bound test** as well.  The 9th and 10th outputs mark the **error test** because **c,** and **e** are not found in the strings. In addition, **ab** and **yZ**  are **unexpected inputs for the 9th and 10th outputs.** |
| "abcde " | " " | The first string is: ab It is 4 characters long. The substring of the first two letters is: ab  The second string is: error! invalid inputs It is 0 characters long: error! no input provided The substring of the last two letters is: error! no characters provided!  The two strings concatenated together are: abyZ It is 4 characters long. The index of the first c in the concatenated string is: **error! c is not found!** The combined string with every e replaced with Q is: **Error! e is not found!**  The two strings concatenated and in all caps is: ABCDE The two strings concatenated and in all lower case is: abcde | On the third output, there is a branch test since the requirements for the output are met.  On the 4th, 5th, and 6th generate errors! Hence, it is the error test because the second input was unexpected.  The 9th and the 10th also generate error tests due to that the second input was unexpected. |
| "" | "wxyZ " | The first string is: error! invalid inputs It is 0 characters long: error! no input provided The substring of the last two letters is: error! no characters provided!  The second string is:  It is 4 characters long. The substring of the first two letters is: wx  The two strings concatenated together are: wxyZ It is 4 characters long. The index of the first c in the concatenated string is: **error! c is not found!** The combined string with every e replaced with Q is: **Error! e is not found!**  The two strings concatenated and in all caps is: WXYZ The two strings concatenated and in all lower case is: wxyz | On the 6th output, there is a branch test since the requirements for the output are met.  On the 1st, 2nd, and 3rd generate errors! Hence, it is the error test because the first input was unexpected.  The 9th and the 10th also generate error tests due to that the first input was unexpected. |
| "" | "" | The first string is: error! invalid inputs It is 0 characters long: error! no input provided The substring of the last two letters is: error! no characters provided!  The second string is: error! invalid inputs It is 0 characters long: error! no input provided The substring of the last two letters is: error! no characters provided!  The two strings concatenated together are: **null** It is 0 characters long. The index of the first c in the concatenated string is: **error! c is not found!** The combined string with every e replaced with Q is: **Error! e is not found!**  The two strings concatenated and in all caps is: null The two strings concatenated and in all lower case is: null | **Error test, hence there is no input!** |
| 123547 | 58245 | The first string is: error! invalid inputs It is 0 characters long: error! invalid inputs The substring of the last two letters is: error! no characters provided!  The second string is: error! invalid inputs It is 0 characters long: error! invalid inputs The substring of the last two letters is: error! invalid inputs!  The two strings concatenated together are: **null** It is 0 characters long. The index of the first c in the concatenated string is: **error! c is not found!** The combined string with every e replaced with Q is: **Error! e is not found!**  The two strings concatenated and in all caps is: null The two strings concatenated and in all lower case is: null | **Error test, hence there is invalid input!** |