

OldPhonePadConverter Documentation

Overview

The OldPhonePadConverter class provides a method to convert sequences of key presses on an old mobile phone pad into corresponding text. This is achieved by simulating the multi-tap input method used in old mobile phones, where pressing a key multiple times cycles through the letters associated with that key.

Class and Method

Class: OldPhonePadConverter

Method: public static string OldPhonePad(string input)

Parameters

- 'Input': A string representing the sequence of key presses, where:
- Digits 2-9 correspond to letters on an old phone pad.
- '*' represents a backspace.
- '#' indicates the end of the input.
- Spaces are used to separate consecutive characters typed from the same key.
- '0' represents a space in the output text.

Returns

- A string representing the text decoded from the key presses.

Code

<https://github.com/rahat-23/OldPhonePadApp> Please Click Link to View Repository

Test Cases

Here are some example test cases to demonstrate the usage and expected output of the OldPhonePadConverter class.

Test Case	Input	Expected Output	Explanation
1	33#	E	The digit 3 corresponds to D, E, F. Pressing it twice results in E.
2	227*#	B	2 pressed twice gives B. 7 pressed once gives P. * is a backspace, removing P.

3	4433555 555666#	HELLO	44 gives H. 33 gives E. 555 gives L. 555 gives another L. 666 gives O.
4	8 88777444666*664#	TURING	8 gives T. 8877 gives U. 7444 gives R. 666 gives O. * is a backspace, removing O. 66 gives N. 4 gives G.
5	2 22 222#	ABC	2 gives A. 22 gives B. 222 gives C.
6	33 333 3#	EFD	33 gives E. 333 gives F. 3 gives D.
7	44 666 9 0 2 777 33 0 999 666 88#	HOW ARE YOU	44 gives H. 666 gives O. 9 gives W. 0 gives a space. 2 gives A. 777 gives R. 33 gives E. 0 gives a space. 999 gives Y. 666 gives O. 88 gives U.

Usage

To use the OldPhonePadConverter class in your application, simply call the OldPhonePad method with the appropriate input string:

```
string result = OldPhonePadConverter.OldPhonePad("44 666 9 0 2 777 33 0 999 666 88#");
Console.WriteLine(result); // Outputs: "HOW ARE YOU"
```

Conclusion

The OldPhonePadConverter class provides a simple way to convert sequences of key presses on an old mobile phone pad into corresponding text. This documentation provides an overview of the class, detailed comments in the code, and example test cases to demonstrate its usage and expected output.

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