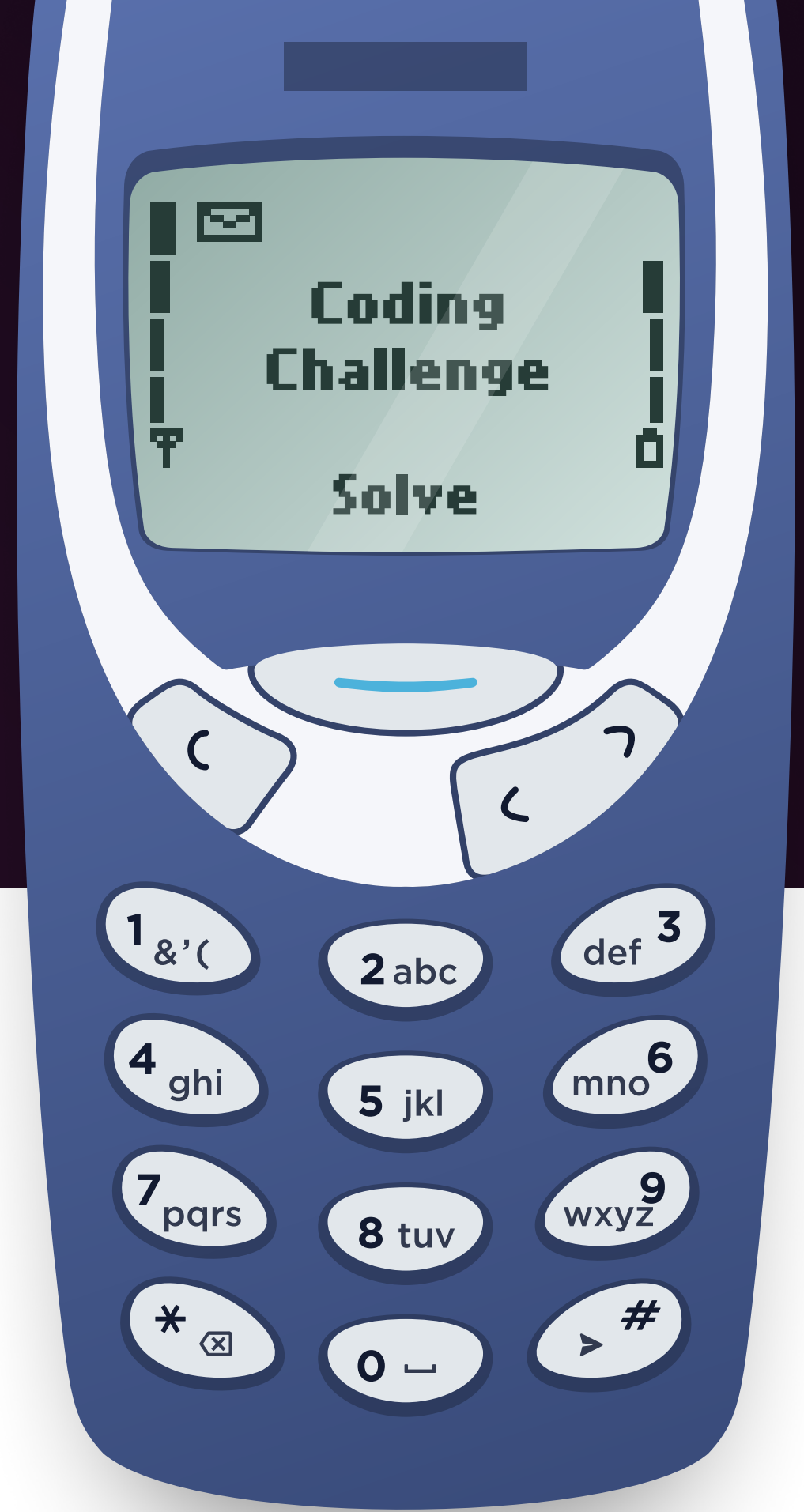




# C# Coding Challenge



Here is an old phone keypad with alphabetical letters, a backspace key, and a send button.

Each button has a number to identify it and pressing a button multiple times will cycle through the letters on it allowing each button to represent more than one letter.

For example, pressing 2 once will return 'A' but pressing twice in succession will return 'B'.

You must pause for a second in order to type two characters from the same button after each other: “**222 2 22**” -> “**CAB**”.

## Prompt:

Please design and document a class or method that will turn any input to OldPhonePad into the correct output.

Assume that a send “#” will always be included at the end of every input.

```
public static String OldPhonePad(string input) {  
    // Please write your implementation here!  
}
```

## Examples:

OldPhonePad(“33#”) => output: **E**

OldPhonePad(“227\*#”) => output: **B**

OldPhonePad(“4433555 555666#”) => output: **HELLO**

OldPhonePad(“8 88777444666\*664#”) => output: **?????**

Please post your solution to GitHub and email [turing@ironsoftware.com](mailto:turing@ironsoftware.com)