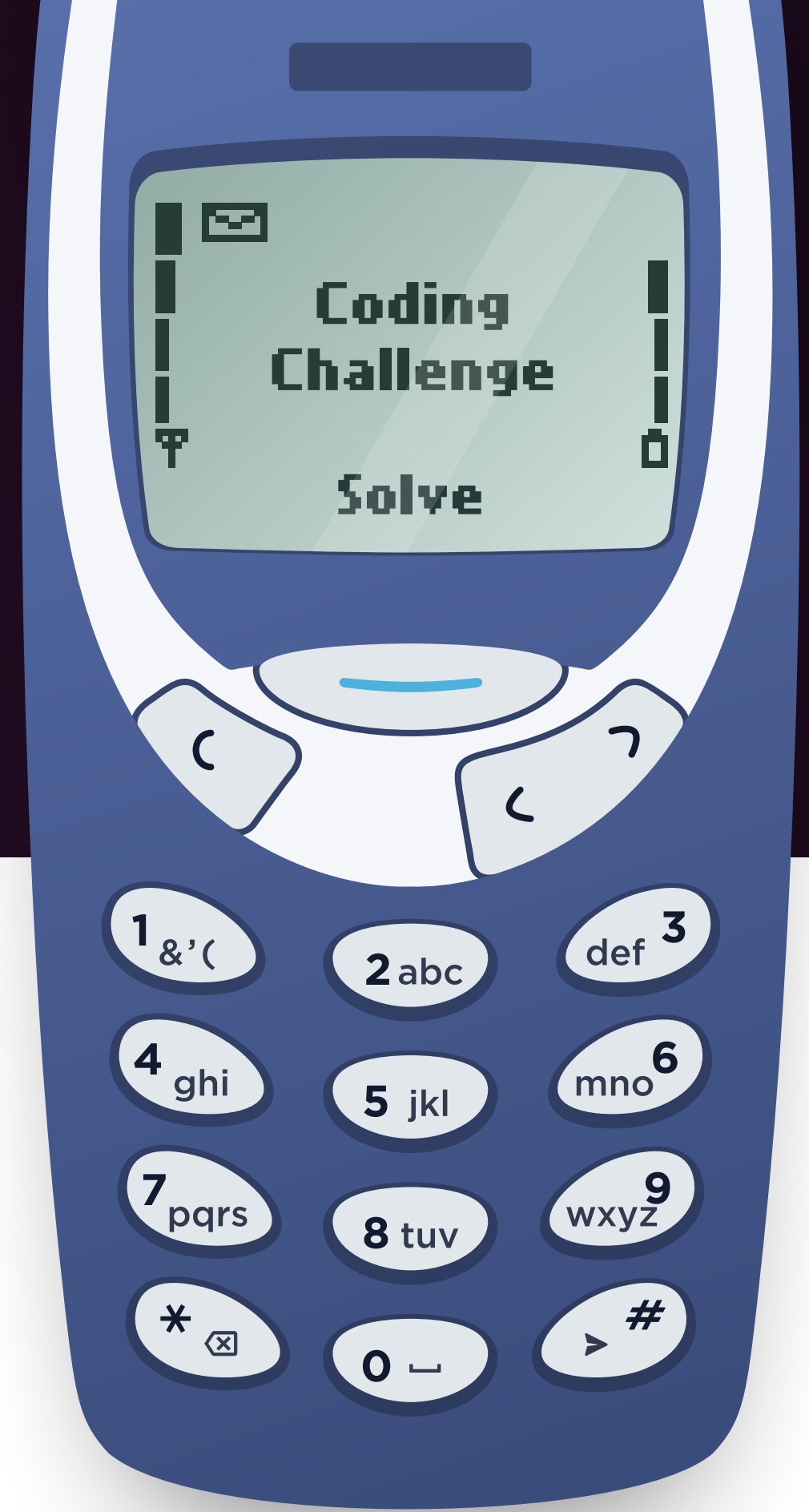# IRON

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 of 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.

```csharp
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: ?????
```

Once you have it working: test cases, readmes, documentation, and clear, refactored code really help us understand how you work and give you the best chance to succeed in applying to join our team.

Please post your solution to GitHub and email **turing@ironsoftware.com**