

```
1 //  
2 // Copyright (c) 2019 Open Whisper Systems. All rights reserved.  
3 //  
4  
5 import Foundation  
6 import SignalServiceKit  
7  
8 @objc  
9 public enum ValidatedPhoneCountryCodes: UInt {  
10    case unitedStates = 1  
11    case brazil = 55  
12 }  
13  
14 @objc  
15 public class PhoneNumberValidator: NSObject {  
16  
17    @objc  
18    public func isValidForRegistration(phoneNumber: PhoneNumber) -> Bool {  
19        guard let countryCode = phoneNumber.getCountryCode() else {  
20            return false  
21        }  
22  
23        guard let validatedCountryCode = ValidatedPhoneCountryCodes(rawValue:  
countryCode.uintValue) else {  
24            // no extra validation for this country  
25            return true  
26        }  
27  
28        switch validatedCountryCode {  
29            case .brazil:  
30                return isValidForBrazilRegistration(phoneNumber: phoneNumber)  
31            case .unitedStates:  
32                return isValidForUnitedStatesRegistration(phoneNumber: phoneNumber)  
33        }  
34    }  
35  
36    let validBrazilPhoneNumberRegex = try! NSRegularExpression(pattern:  
"^\\+55\\d{2}9?\\d{8}$", options: [])  
37    private func isValidForBrazilRegistration(phoneNumber: PhoneNumber) -> Bool {  
38        let e164 = phoneNumber.toE164()  
39        return validBrazilPhoneNumberRegex.hasMatch(input: e164)  
40    }  
41  
42    let validUnitedStatesPhoneNumberRegex = try! NSRegularExpression(pattern:  
"^\\+1\\d{10}$", options: [])  
43    private func isValidForUnitedStatesRegistration(phoneNumber: PhoneNumber) -> Bool {  
44        let e164 = phoneNumber.toE164()  
45        return validUnitedStatesPhoneNumberRegex.hasMatch(input: e164)  
46    }  
47 }
```