

Northern Michigan University (Marquette Co, MI)
CS344-01-24F: iOS/iPhone Programming
Practice Quiz 5: Thursday 3 October 2024 1:00 P.M. EDT
Time: 15 minutes

Write code for the following method:

```
func XMarksTheSpot (_ n:Int) -> [[Character]]
```

This method creates and returns an $n \times n$ matrix of characters. All characters are spaces, except that there is a X formed by the character X along both diagonals. For example, if n is 4, the matrix returned is

```
X  X
  XX
  XX
X  X
```

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```
func XMarksTheSpot (_ n:Int) -> [[Character]] {  
  
    var M:[[Character]] = []  
    for _ in 0..  
n {  
        var row:[Character] = []  
        for _ in 0..  
n {  
            row.append (" ")  
        }  
        M.append (row)  
    }  
    for i in 0..  
n {  
        M[i][i] = "X"  
        M[i][n-i-1] = "X"  
    }  
    return M  
}
```