

# Northern Michigan University (Marquette Co, MI)

CS344-01-24F: iOS / iPhone Programming (Andrew A. Poe) Name: \_\_\_\_\_  
Quiz 5

Friday 4 October 2024 1:00 P.M. EDT

Time: 15 minutes.

Write Swift code for the following method:

```
func VerticalFlip (_ M:[[Int]]) -> [[Int]]
```

This builds and returns a matrix that is M but reversed vertically.

For example, if M were

1	2	3	4
5	6	7	8
9	10	11	12

The returned matrix would be

9	10	11	12
5	6	7	8
1	2	3	4

```
func VerticalFlip (_ M:[[Int]])->[[Int]] {  
  
    var R:[[Int]] = []  
  
    for i in 0..        var row:[Int] = []  
        for j in 0..            row.append (M[M.count-i-1][j])  
        }  
        R.append (row)  
    }  
    return R  
}
```