Fundamentals of Computer Vision Fall – 2016 (Section B) Quiz # 3

Q1. Give algorithm for Modified Hough Transform using gradient to find lines.

```
Initialize H[d, Θ]=0
For each edge point (x,y)
    θ = gradient orientation at (x,y)
    d = x cos θ + y sin θ
    H(θ, d) = H(θ, d) + 1
    end
Find the value(s) of (d, Θ) where H[d, Θ] is maximum
The detected line in the image is given by
    d=xcos θ+y sin θ (points satisfying the equation for maximum d and θ will be marked)
```