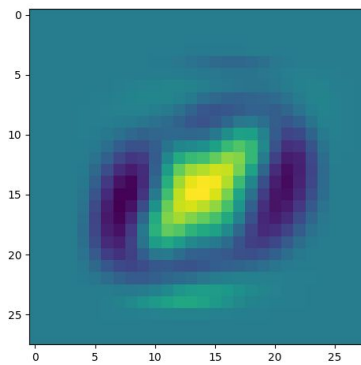


Question 1:

| N | Mean Accuracy | 5% Percentile | 95% Percentile |
|------|--------------------|--------------------|--------------------|
| 5 | 0.9180348004094167 | 0.8380501535312179 | 0.9626407369498464 |
| 10 | 0.9440327533265098 | 0.9067809621289662 | 0.971417604912999 |
| 50 | 0.9621033776867965 | 0.9528659160696008 | 0.9759467758444217 |
| 100 | 0.9646315250767654 | 0.9554503582395087 | 0.9739252814738997 |
| 500 | 0.9655987717502561 | 0.9626151484135107 | 0.9682702149437052 |
| 1000 | 0.9659570112589558 | 0.9631525076765609 | 0.968295803480041 |
| 5000 | 0.9671750255885364 | 0.9662231320368475 | 0.9677584442169908 |

Question 2:

Here is a visual representation of the weight vector:



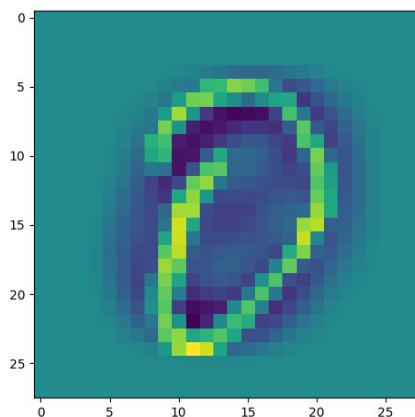
My intuition is that it prioritizes the center of the images over the margins.

Question 3:

The accuracy I received was 0.9672466734902764

Question 4:

I got a misclassification for the following image:



This makes sense - in this image the focus is on the margins and the center is “empty”, exactly the opposite of the Perceptron’s results.