

A feedforward neural network with a single output layer to classify input patterns either as a "C" or not a "C". We have here the following two training patterns

```
.##  
#..  
#..  
#..  
.##
```

with a target $t(1) = 1$, and

```
##  
##  
.#.  
##  
##
```

with a target $t(2) = -1$ (for not a "C").

Hebb's rule used to compute the weight vector and bias assuming initial zero values.

Produced a vector where the k-th element gives the total number of "C" that is misclassified when it is corrupted by having k different pixels flipped from black to white and from white to black.

Also, instead of corrupted "C" patterns, used k undetermined (unmeasured) pixels by assigning a zeros to those pixels and for the lowest k produced a pattern that the NN classifies incorrectly.