Nearest means algorithm

Input:

1. Training data T of dimension n by m (n rows and m columns)
2. Training labels L. Each label l_i is an integer indicating the class that row i belongs to.
3. Test data E of dimension n' by m

Algorithm:

1. Training: Compute the mean m_j of each class.
2. Prediction: Assign point x'_i to class j if x'_i is closest to the mean of class j. In other words

$$class(x'_i) = argmin_j(\|m_j - x'_i\|)$$