Algorithm 1: Democratic Co-Learning - predict (combine)

Input: $\boldsymbol{H}_1, \boldsymbol{H}_2, ..., \boldsymbol{H}_n$ and x (instance)
Output: Combined hypothesis (prediction)

for *i = 1,...,n*
    Use $\boldsymbol{L}$ to calculate the 95% confidence interval $[l_i, h_i]$ de $\boldsymbol{H}_i$
    $w_i = (l_i + h_i)/2$
endfor
for *i = 1,...,n*
    if $H_i(x)$ *predicts* c_j *y* $w_i > 0.5$
        Add H_i to the group G_j /* j is a label */
    end
endfor
for *j = 1,...,r*
    $\bar{C}_{G_j} = \frac{|G_j|+0.5}{|G_j|+1} * \frac{\sum_{H_i \in G_j} w_i}{|G_j|}$
endfor
H predicts with the group G_k with $k = arg\ max_j(\bar{C}_{G_j})$
return H