


```

mistakes = np.where([element<=0 for element in [labels[ind]*np.dot(w,x) for ind,x in
    enumerate(X) ]])[0]
pairs = zip(mistakes, sample_weight[mistakes])
sorted_pairs = sorted(pairs, key=lambda t: t[1], reverse = True)
#use the misclassified example with maximum weight given by Adaboost
misclass = sorted_pairs[0][0]
#weight update
w = w + labels[misclass]*X[misclass]
#labels prediction
pred_labels = [1 if x>0 else -1 for x in [np.dot(w,x) for x in X]]
i+=1
if (i>201):
    break
return pred_labels

```

- 1- [0.9, 1.0]
- 2- [0.8, 0.9]
- 3- [0.7, 0.8]