

필수문제 2 - 혼동행렬을 수로 주어 평가지표를 계산

<혼동행렬>

	예측값	
실제값	TN	FP
	FN	TP

<평가표>

1. 정확도 :

$$\frac{TP + TN}{\text{all}}$$

2. 정밀도 :

$$\frac{TP}{TP + FP}$$

3. 재현율 :

$$\frac{TP}{TP + FN}$$

4. f1-score : $2 \times \frac{\text{recall} \times \text{precision}}{\text{recall} + \text{precision}}$

ex) $\begin{bmatrix} 110 & 25 \\ 43 & 37 \end{bmatrix}$

$$1) \text{ Accuracy} = \frac{110 + 37}{110 + 25 + 43 + 37} = \frac{147}{215} \approx 0.68$$

$$2) \text{ Precision} = \frac{37}{37 + 25} = \frac{37}{62} \approx 0.59$$

$$3) \text{ recall} = \frac{37}{37 + 43} = \frac{37}{80} \approx 0.46$$

$$4) \text{ f1-score} = 2 \times \frac{0.27}{1.05} \approx 0.52$$