Criven that relevent is positive and irrelevent is negative class.

Algorithm 1:

Algorithm 2:

Actual Predicted	Positive	Negative	Actual Predicted	Positive	Negative	
Positive	(TP)	(FP)	Positive	(TP)	(FP)	
	25	15		20	10	
	(FN)	(TN)		(FN)	(TN)	
Negative	5	55	Negative	10	60	

Q2.

Algorithm 1: BA1 = 
$$\left(\frac{25}{30} + \frac{55}{70}\right)/2 = \frac{17}{21} \approx 0.81$$

Algorithm 2: BAz= 
$$\left(\frac{20}{30} + \frac{60}{70}\right)/2 = \frac{16}{21} \approx 0.76$$

\* In replacing accuracy with balaced accuracy or fi-score, I think my firend's Suggestion is better here, since balanced accuracy cares both positive and negative, but fi-score doesn't cave about true negative.

Q3.

No, because both metrics focus more on positive class of an imbalanced dataset.

Q4.

Specificity, precision, recall, accuracy