Points

			×			×		
1	2 3	4 5	6 7	8 9	10	11 12	13	->t

5.5 4.5 0.5 Let us consider (65,0) as a point

=> Calculating distance from all points to target point.

1165-1)2+10-05 = 5.5

K=3. So the three nearest points are: Griven

0.44 J -> Set 2

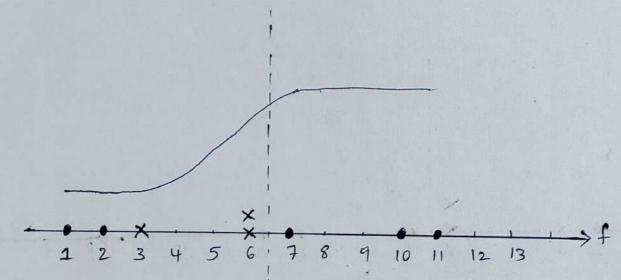
3.5

0.5

 $0.5 \longrightarrow Set 1$

As majority is from set 2, the target point. belongs to sel 2

Let us consider:



-> The 'x points which are on left side of dotted line. I consider it as rightly placed. and which are on right side I consider it as wrongly placed.

-> Point (0) on left side -> klrongly placed. Point (0) on right side -> Rightly placed.

3 points (x) are on rightly placed.

o points (x) are wrongly placed.

3 points (0) are rightly placed. 2 points (0) are wrongly placed.

Confusion matrix:

$$\frac{Accuracy}{P+N} = \frac{TP+TN}{P+FN} = \frac{TP+TN}{(TP+FN)+(FP+TN)}$$

$$= \frac{3+3}{(3+0)+(2+3)} = \frac{6}{8} = 0.75$$

Specificity =
$$\frac{TP}{P}$$
 = $\frac{TP}{TP+FN}$
= $\frac{3}{3+0}$ = 1.
Specificity = $\frac{TN}{N}$ = $\frac{TN}{FP+TN}$
(TNR) = $\frac{3}{5}$ = 0.6