1. Plot a ROC figure based on the given table.

Data ID	Ground Truth Class Label	Score	
1	P	0.85	3
2	P	0.3	18
3	P	0.35	16
4	P	0.6	8
5	P	0.55	9
6	P	0.65	7
7	P	0.4	14
8	P	0.5	11
9	P	0.45	13
10	P	0.55	10
11	n	0.75	5
12	n	0.85	2
13	n	0.75	6
14	n	0.15	20
15	n	0.2	19
16	n	0.5	12
17	n	0.9	1

Data ID	Ground Truth class Label	Score	
18	n	0.4	15
19	n	0.8	4
20	n	0.3	17

We could sort the table in descending order:

Data ID	Ground Truth Class Label	Score
17	n	0.9
12	n	0.85
1	p	0.85
19	n	0.8
11	n	0.75
13	n	0.75
6	p	0.65
4	p	0.6
5	p	0.55
10	p	0.55
8	p	0.5
16	n	0.5
9	p	0.45
7	p	0.4
18	n	0.4

Data ID	Ground Truth Class Label	score	TP	FN	FP	TN	TPR	FPR
3	p	0.35						
20	n	0.3						
2	p	0.3						
15	n	0.2						
14	n	0.15						

True Positive rate (y-axis): 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 10

False Positive rate (x-axis): 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.10 ... 0.15

Plotted points/labels: 0.9, 0.85, 0.85, 0.8, 0.75, 0.75, 0.65, 0.6, 0.55, 0.55, 0.5, 0.5, 0.45, 0.4, 0.4, 0.35, 0.3, 0.3, 0.2, 0.15 *