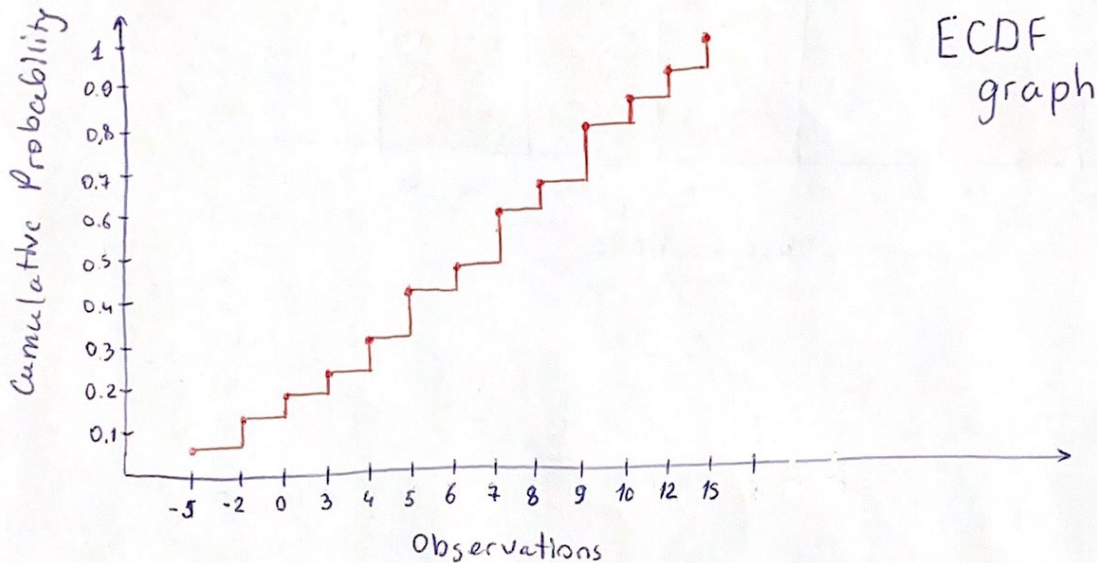


Data Visualization Homework 2

Part 2

1) -5, -2, 0, 3, 4, 5, 5, 6, 7, 7, 8, 9, 9, 10, 12, 15 $n = 16$

value	-5	-2	0	3	4	5	6	7	8	9	10	12	15
qty	1	2	3	4	5	7	8	10	11	13	14	15	16
probab.	0.06	0.13	0.19	0.25	0.31	0.44	0.5	0.63	0.69	0.81	0.88	0.94	1.



2) -5, 12, 14, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 24, 25, 29, 30, 35

Median = 20

$Q_1 = 15$

$Q_3 = 24$

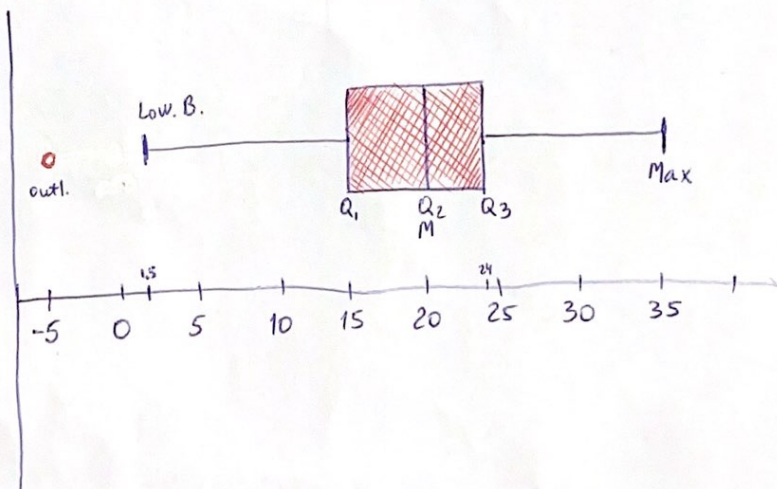
Min = -5

Max = 35

$IQR = Q_3 - Q_1 = 9$

Lower Bound = $Q_1 - 1.5 IQR =$
 $= 15 - 1.5 \cdot 9 = 1.5$

Upper Bound = $Q_3 + 1.5 IQR =$
 $= 24 + 1.5 \cdot 9 = 37.5$



3) -10, 45, 50, 55, 55, 60, 62, 65, 68, 70, 73, 74, 80, 80, 82, 85, 88, 90, 91, 92, 94, 97, 100, 105

let's take ranges: $[-10, 15]$, $(15, 40]$, $(40, 65]$, $(65, 90]$, $(90, 115]$

