

1. Projections:

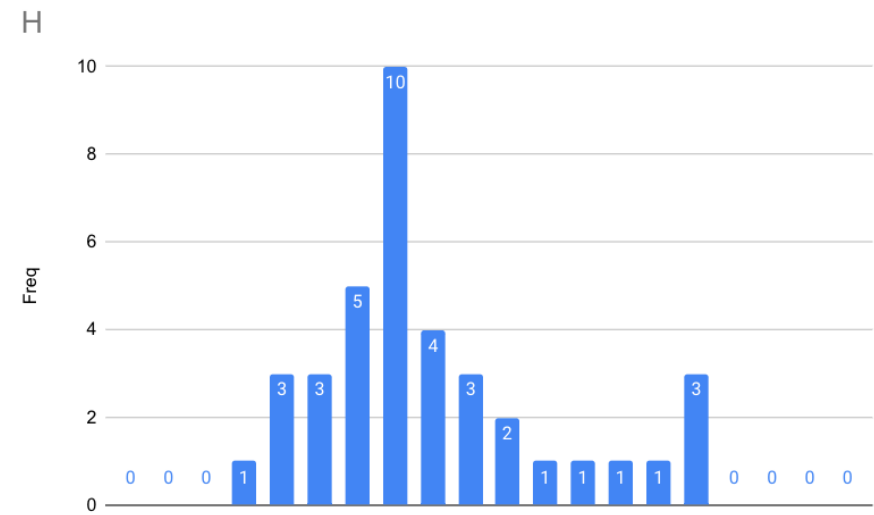
a) Definition

$V = \sum_x B(x,y), H = \sum_y B(x,y)$

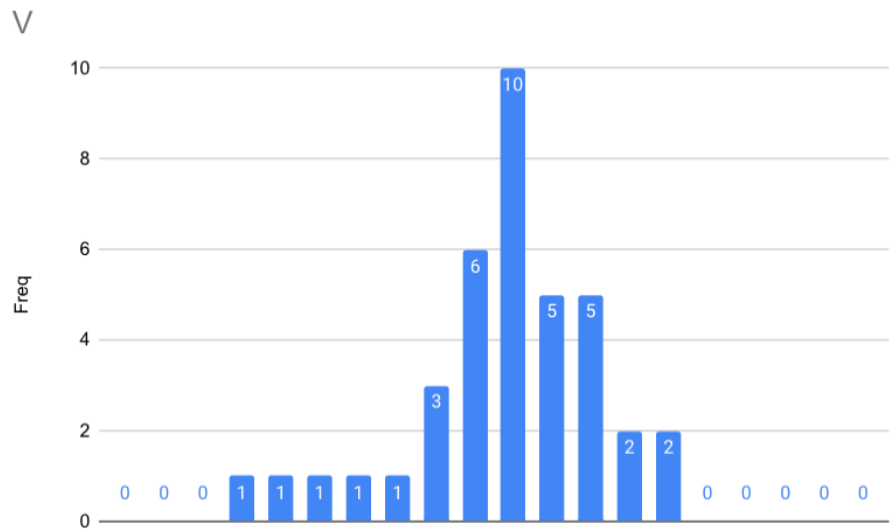
b) Projection

H	0	0	0	1	3	3	5	10	4	3	2	1	1	1	1	3	0	0	0	0
V	0	0	0	1	1	1	1	1	3	6	10	5	5	2	2	0	0	0	0	0

Horizontal Projection



Vertical Projection



2a) FloodFill

0	0	1	1	1	1	0	2
0	1	1	1	0	1	0	2
1	1	1	1	0	1	0	0
0	0	0	0	0	1	0	3
4	4	0	0	1	1	0	3
4	4	4	0	0	0	0	3
4	0	0	0	4	0	3	3
4	4	4	4	4	0	3	3

2b) Sequential Labelling

0	0	1	1	1	1	0	2
0	3	1	1	0	1	0	2
4	3	1	1	0	1	0	0
0	0	0	0	0	1	0	5
6	6	0	0	7	1	0	5
6	6	6	0	0	0	0	5
6	0	0	0	8	0	9	5
6	6	6	6	6	0	9	5