Example 2 of barren land analysis:
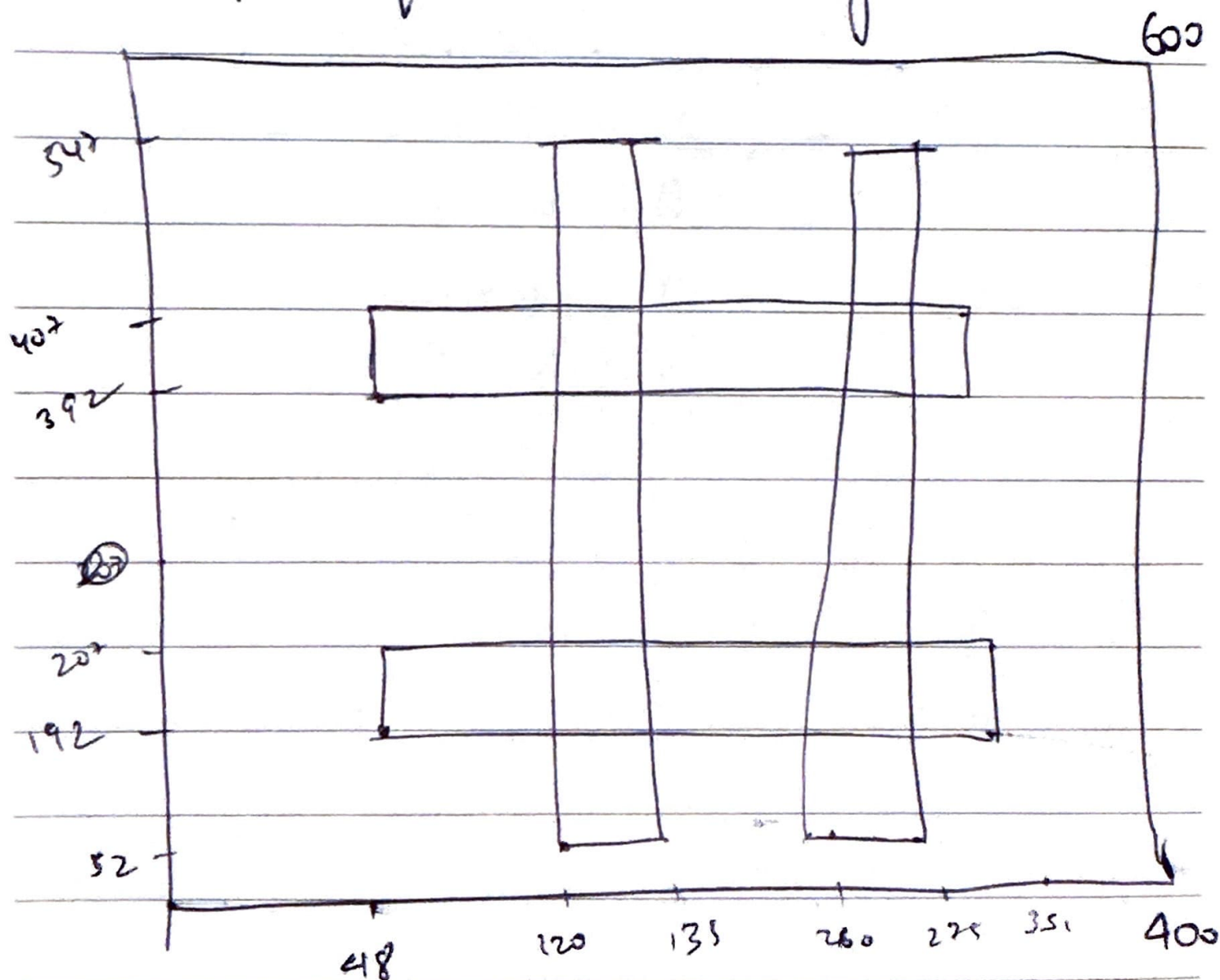
BFS:

start

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

1 = fertile

0 = barren

-1 = visited

$q = ((0,0))$

directions = { left, right, down, up }

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

-1 = visited.

$q = ((0,1), (1,0))$

area = 1

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

$q\ cell = ((a,2), 2,0))$

$area = 3$

:
:

Final step:

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

$q = (\ )$

$area = 21$