

1	1	1	0	1	1	0	0
1	0	0	0	0	1	0	0
1	1	1	0	0	0	1	1
0	1	0	0	1	1	0	1
0	0	1	0	0	0	1	0
0	0	0	0	0	1	1	0
0	1	0	0	0	0	1	1
0	0	0	1	0	0	0	1
1	0	0	1	0	0	0	0
0	0	0	1	0	1	0	0

This covering matrix contains information about 8 sites and 10 demand areas.

- a) Solve a LSCP for the above coverage matrix. Assume all facilities cost the same to locate. Which sites are part of the optimal solution?

How many sites will be needed if each demand needs to be covered twice, where at most one facility can be located at any site?