Input of n = 8 would produce a test input like this:

A = [[1 3 7 0 0 7 7 5]
 [7 6 7 7 5 3 2 6]
 [3 1 7 5 4 1 7 6]
 [4 4 5 5 2 1 2 3]
 [6 5 7 4 1 6 3 6]
 [7 7 2 3 3 2 7 4]
 [1 3 3 7 3 5 0 3]
 [1 2 1 3 6 2 4 6]]

b = [5 2 0 7 4 1 3 6]