#1

Red texts are col and row numbers to help with reading.

a)

b)

0 1 13

0 2 7

0 4 25

1 3 15

2 3 12

4 1 6

2)

a)

0 1 2

0 8 10

B 5 0 0

2 0 9 0

b) Skipped.

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3)
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- a) inDeg(4) = 1
- b) outDeg(4) = 0
- c) maxInDeg = 3

4)

4a)

head \rightarrow [1,]-> [5,]->[7,null] MODIFIED made [1] skip over [3] the node [3] was removed

- 4b) Both head and curr pt to last node
- 5) the list looks like this
 - 5a) head -> [3,-] -> [1,-] -> [2,-]-> [0,null]

 The output is: 3 2 0 1 3120
 - 5b) The output is: 1 2 3 4 5 6 7 8 9

6)

- a) inDeg(4) = 3
- b) outDeg(4) = 4
- c) maxInDeg = 3

8b)
8 levels. Level 0 - 7.

7