2 a) order : 1, 2, 5, 6, 10, 11, 3, 7, 12, 13, 4, 8, 9

at iteration 3 visited nodes are 1, 2, 5

Fringe : 5, 2, 1

b) DF iterative deepening search :

Depth

0 : 1

1 : 1, 2, 3, 4

2 : 1, 2, 5, 6, 3, 7, 4, 8, 9

3 : 1, 2, 5, 6, 10, 11, 3, 7, 12, 13, 4, 8, 9

fringe at iteration 3 : 5, 2, 1

c) order : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,

at iteration 3 : 1, 2, 3
fringe is 1, 2, 3

d) order : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

fringe at itr 3 : 5, 6, 7, 4

e) order: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

fringe at ~~t~~ ~~h~~ with 3: 5, 6, 7, 4