

2)

Consider the following example

1	2	
4	5	3
7	8	6

$h(N)$ in this case turns out to be

$$h(N) = 0 + 0 + \cancel{0} + 1 + 1 + 0 + 1 + 1 + 0 = 4.$$

But in reality, it takes 2 moves to reach goal state

1	2	3
4	5	8
7	8	6

$$h(N) = 2$$



1	2	3
4	5	6
7	8	

$$h(N) = 0.$$

∴ For this example $h(N)$ is not admissible since it is an overestimate.