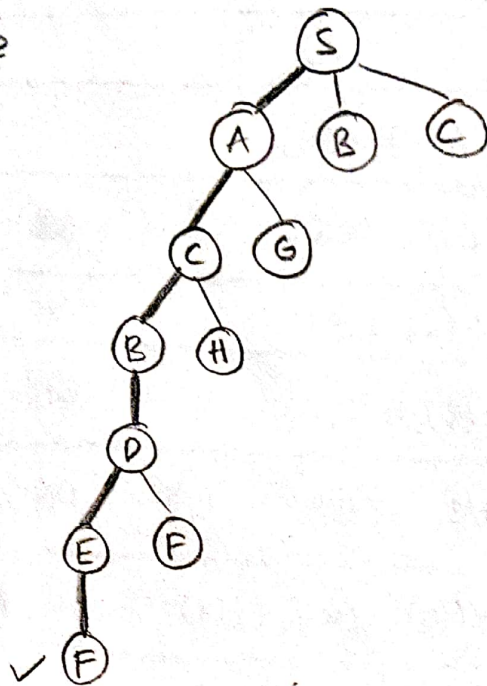


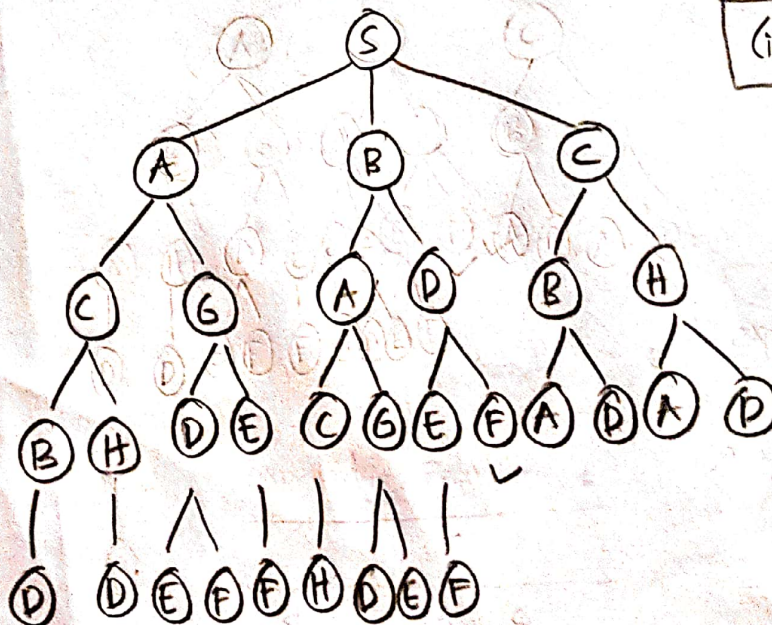
1a) DFS



(i) S-A-C-B-D-E-F ✓

explored	frontier
S	A, B, C
A	C, G
C	B, H
B	D
D	E, F
E	F
F	

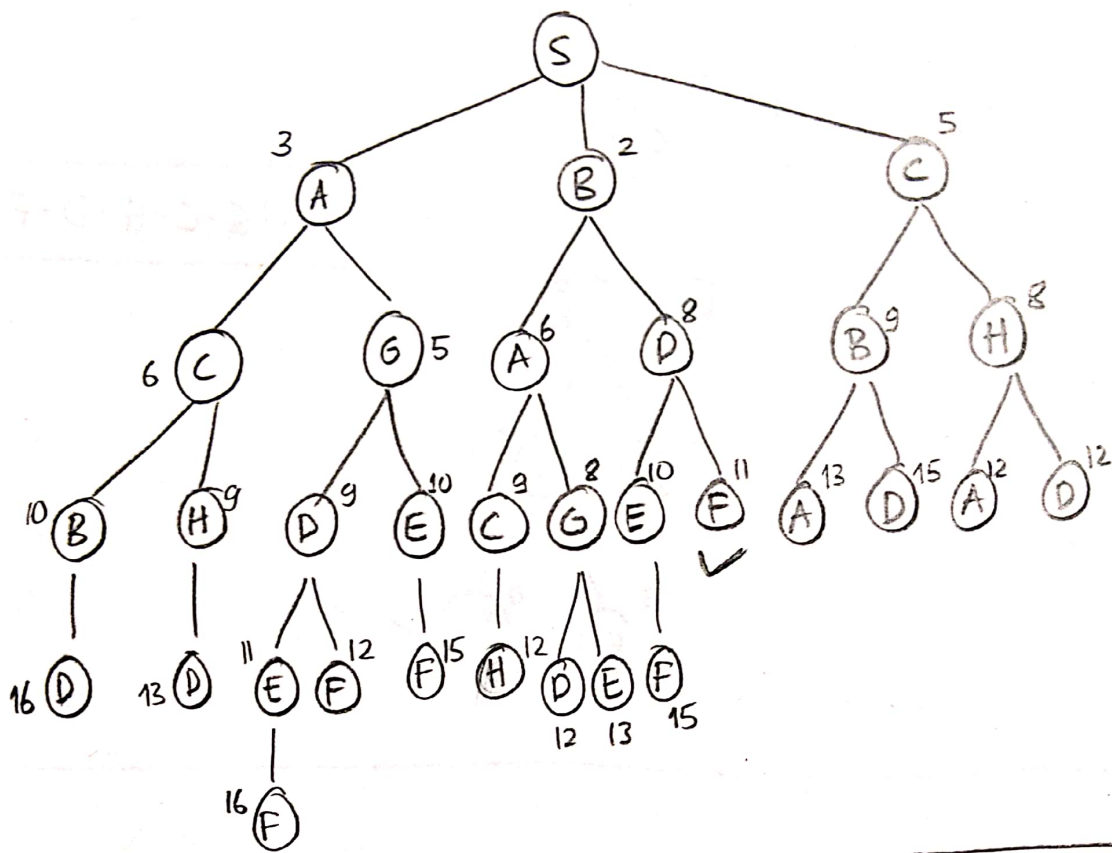
1b) BFS



(ii) S-B-D-F ✓

1c) UCS

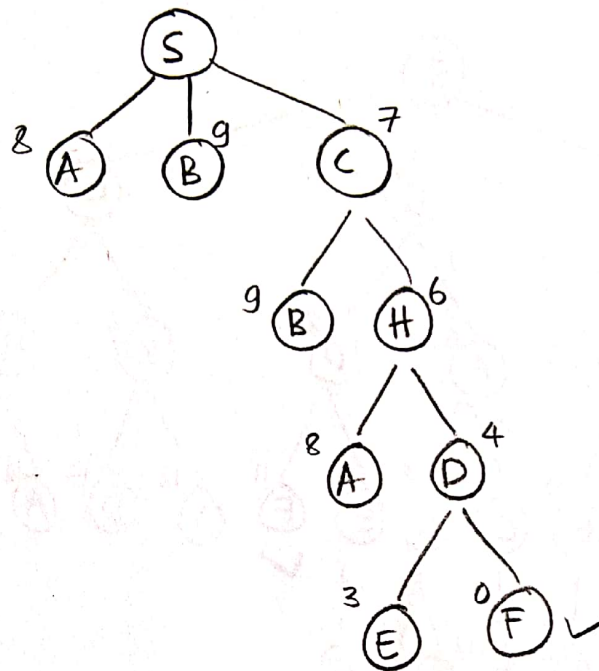
(2)



(i) S-B-D-F ✓

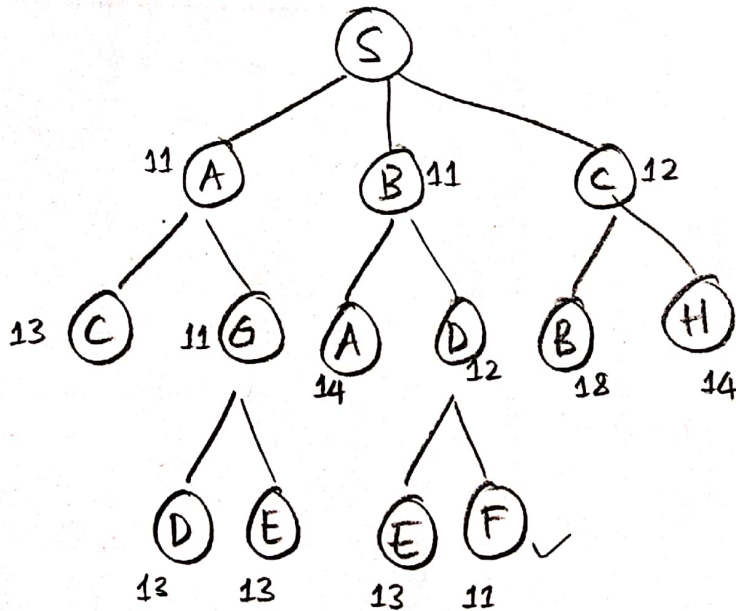
1d) Greedy BFS

3



(iv) S-C-H-D-F ✓

1e) Algorithm A

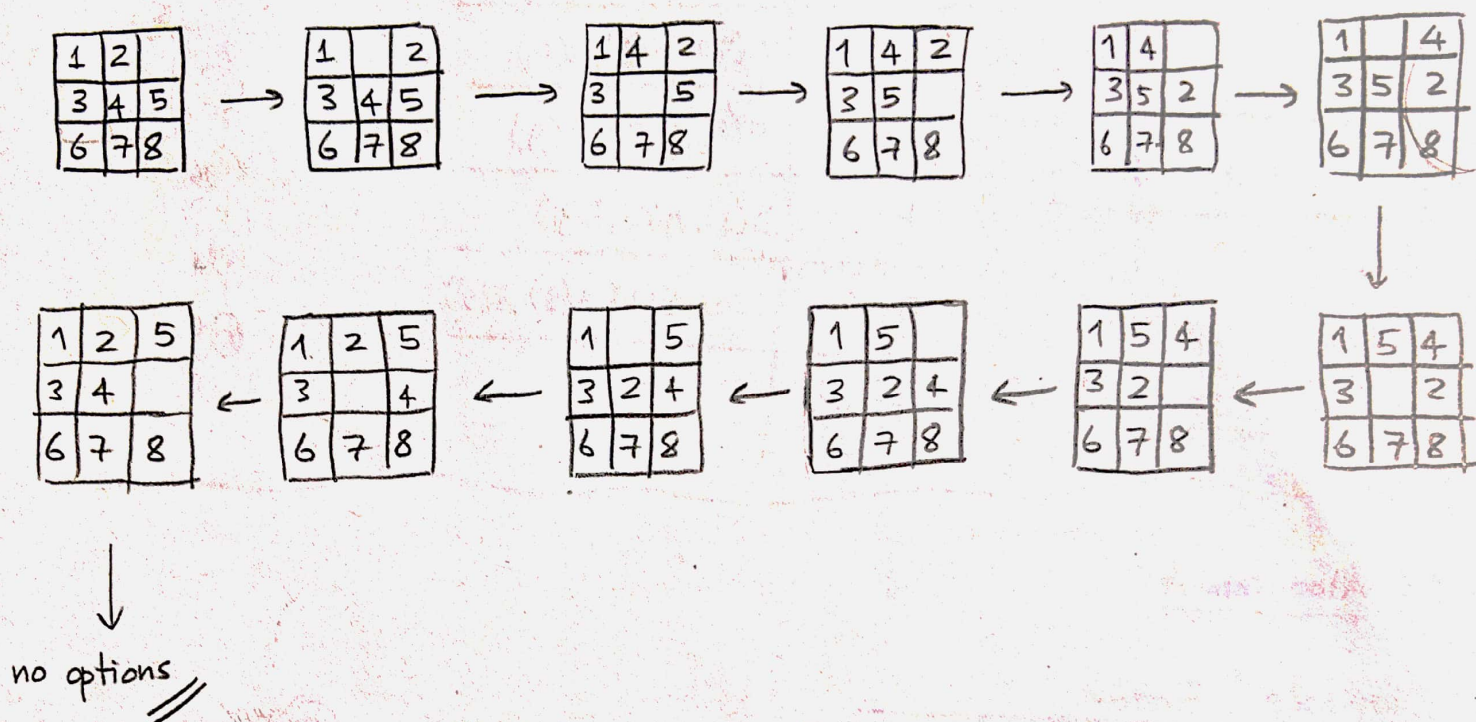


(i) S-B-D-F ✓



④

2a) Zero because we can possibly run out of legal successors since we can't repeat states along the path back to the root. For example,



2b) 4 in the case where the initial state is in the form of the following (empty middle):

