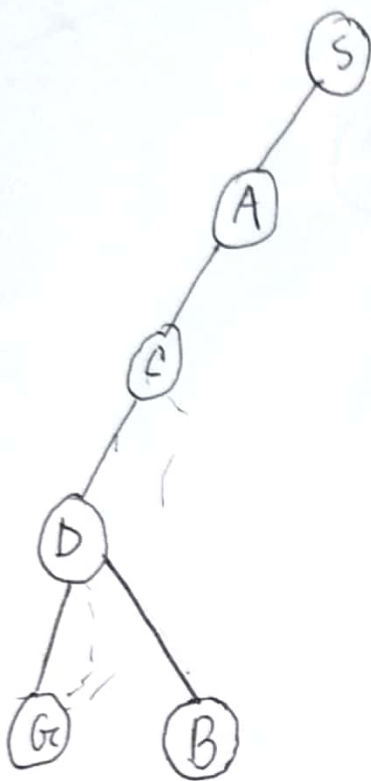


Prb-1

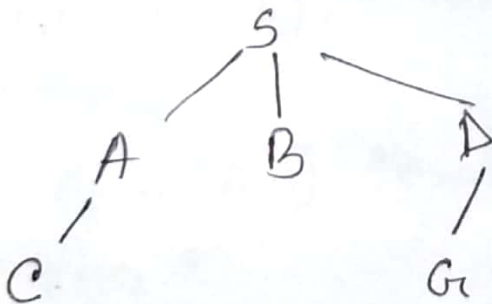
DFS



States: S-A-C-D-G-B

Path: S-A-C-D-G

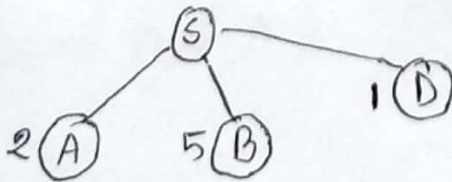
BFS



State: S-A-B-D-C-G

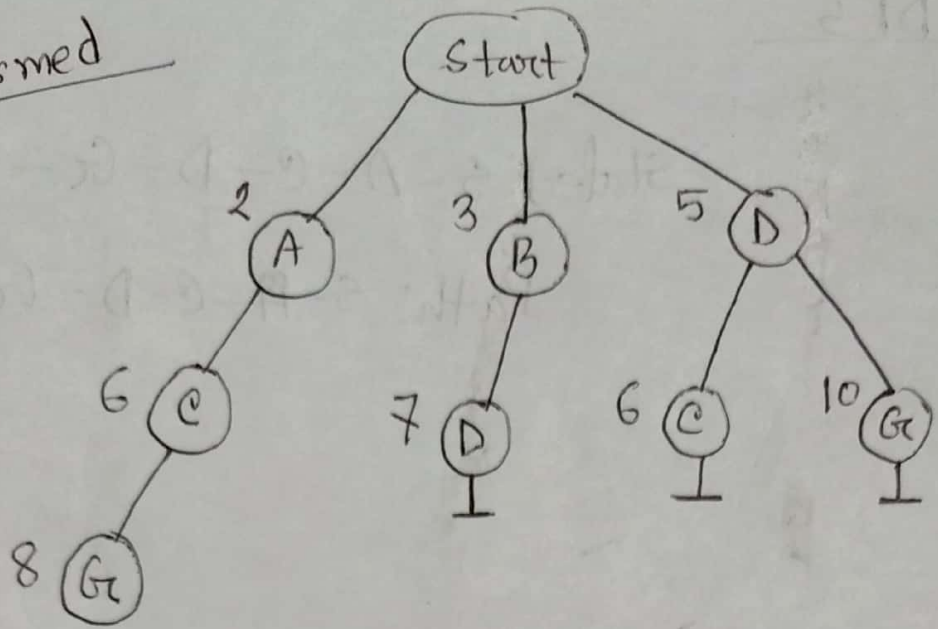
Path: S-D-G

Uniform



**Dermasol<sup>®</sup>**

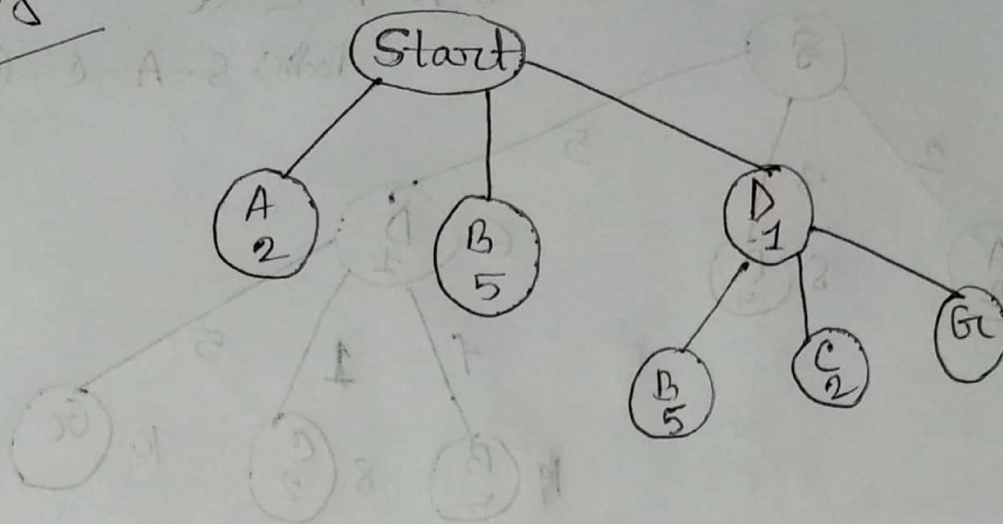
Uninformed



States expanded: S-A-B-D-C-G

Path: S-A-C-G

Greedy  
BFS



States: S-D-G  
Expand:

Initialization:

Open [A, B, D], Closed [S]

Path: S-D-G

Iteration 1:

Open [A, B], Closed [S, D]

Iteration 2:

Open [B, C, G, A] Closed [S, D]

Open [B, C, A] Closed [S, D, G]

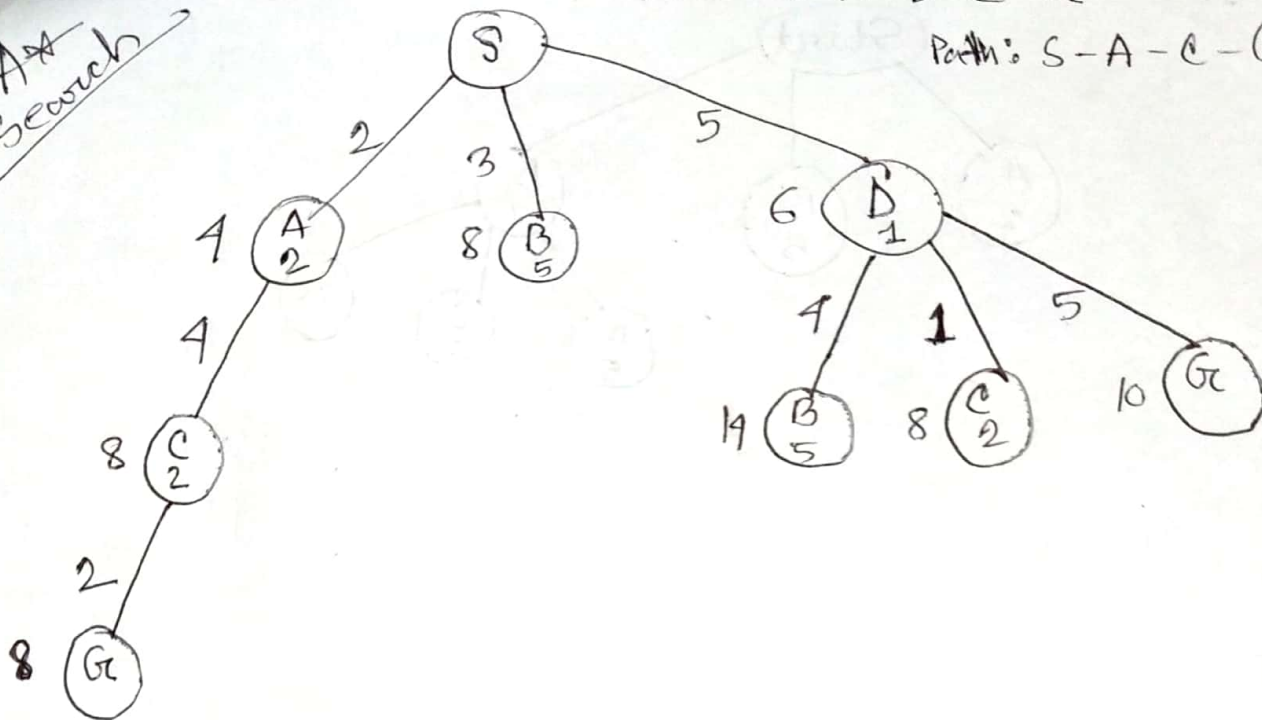
Dermasol



A\* Search

States Expanded  $\rightarrow S-A-D-C-G$

Path:  $S-A-C-G$



Initialization:  $\{(S, 0)\}$

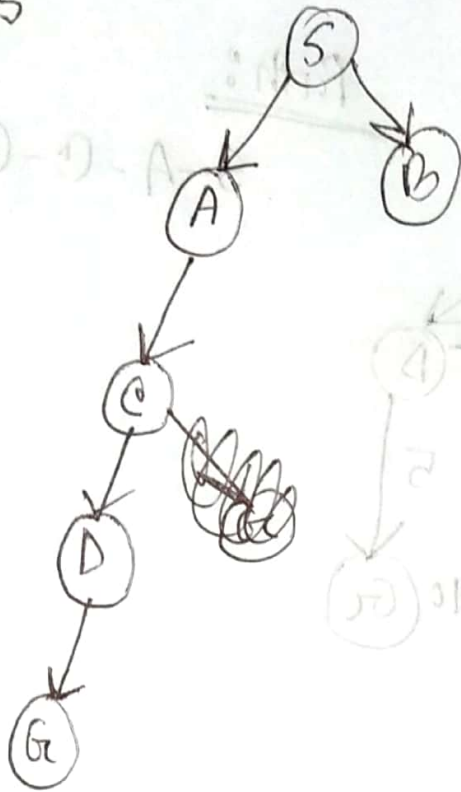
Iteration 1:  $\{(S \rightarrow A, 4), (S \rightarrow B, 8), (S \rightarrow D, 6)\}$

Iteration 2:  $\{(S \rightarrow A \rightarrow C, 8), (S \rightarrow B, 8), (S \rightarrow D, 6)\}$

Iteration 3:  $\{(S \rightarrow A \rightarrow C \rightarrow G, 8), (S \rightarrow B, 8), (S \rightarrow D, 6)\}$

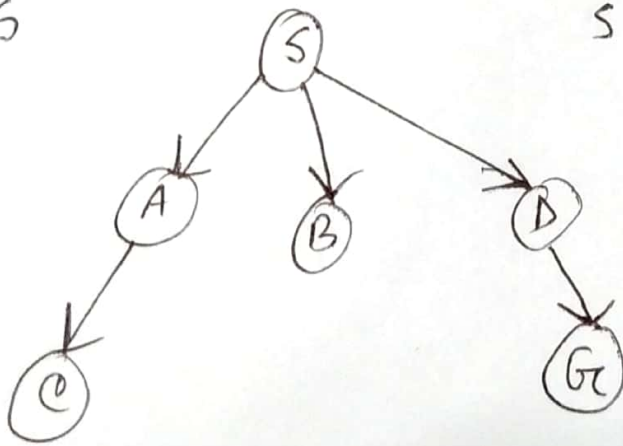
## Prob-2

a) DFS



States → S-A-C-D-G-B  
Expand →  
Path → S-A-C-D-G

b) BFS



S-A-B-D-C-G

Path: S-D-G

Uniform

states

S-A-B-D-C-G

Path:

S-A-C-G

