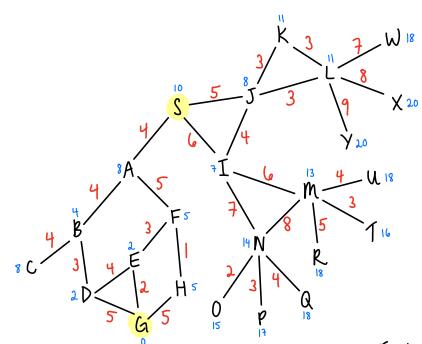
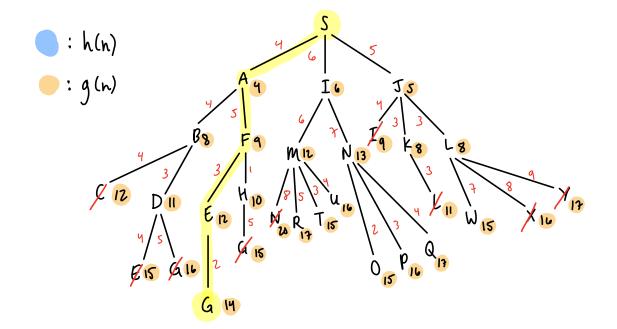
Jane Downer





1. Uniform Cost Search

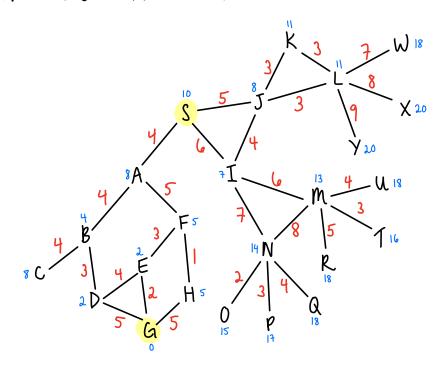


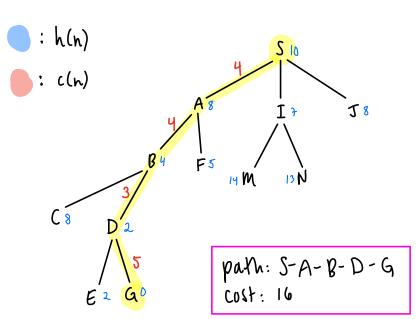
EXPLORED SATIBKLFHDM CEN

Path: S-A-F-E-G

Cost: 14

2. Heuristic best-first search

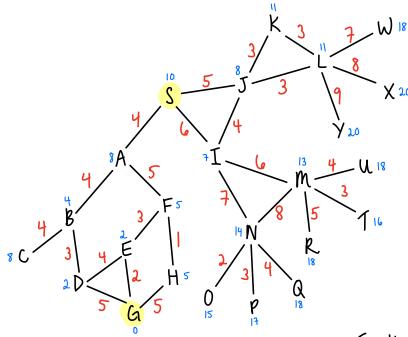


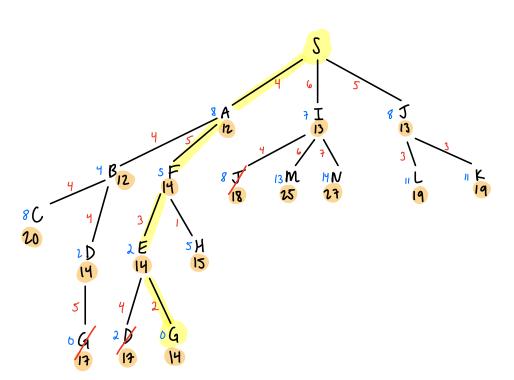


Frontier	Explored
% : 10	S
<i>p</i> (: 8	I
X: 7	Α
J: 8	${\cal B}$
M: 14	D
N: 13	
ß : 4	
F: 5	
C: 8	
p : 2	
E: 2	
G: 0	









Frontier	Explored
ه: ٥	<u> </u>
,8: 0 A: 12	Α
】: 13 が : 13	B I
7 : 13	Ι
B: 12	J
7: 14 C: 20	F
	D
p: 14	E
M:25	
N:27	
L: 19	
K: 19	
Ø:14	
H: 15	
G: 17 G: 14	
a · 19	

parn: S-A-F-E-G cost: 14

- 4. It is consistent, because c(n) + h(n) wrong any path is non-decreasing.
- 5. In could be the sum of the edge costs of the optimal path between a given node & G. This is consistent because f(n) will be non-decreasing along any path toward G. It dominintes all other houristics ble it maximizes the houristic value at each node and results in the smallest possible A* search tree.

