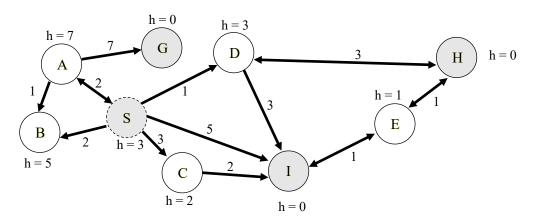
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Consider the following search problem where S is the start state, and G, H and I are goal states.



Write down and explain if the provided heuristic is

- (a) admissible, and
- (b) consistent

Can a heuristic be consistent but inadmissible?	
Can a heuristic be admissible but inconsistent?	

Assuming that children are added to the frontier in alphabetical order, write down

- (a) the order of explored states, and
- (b) the solution path

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for each of the fol	llowing search alg	orithms		
(i) BFS-TSA	_			
(ii) DFS-GSA				
(II) DI'S-USA				
(iii) UCS-TSA				
(iv) A*-GSA				
(IV) A -GSA				
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