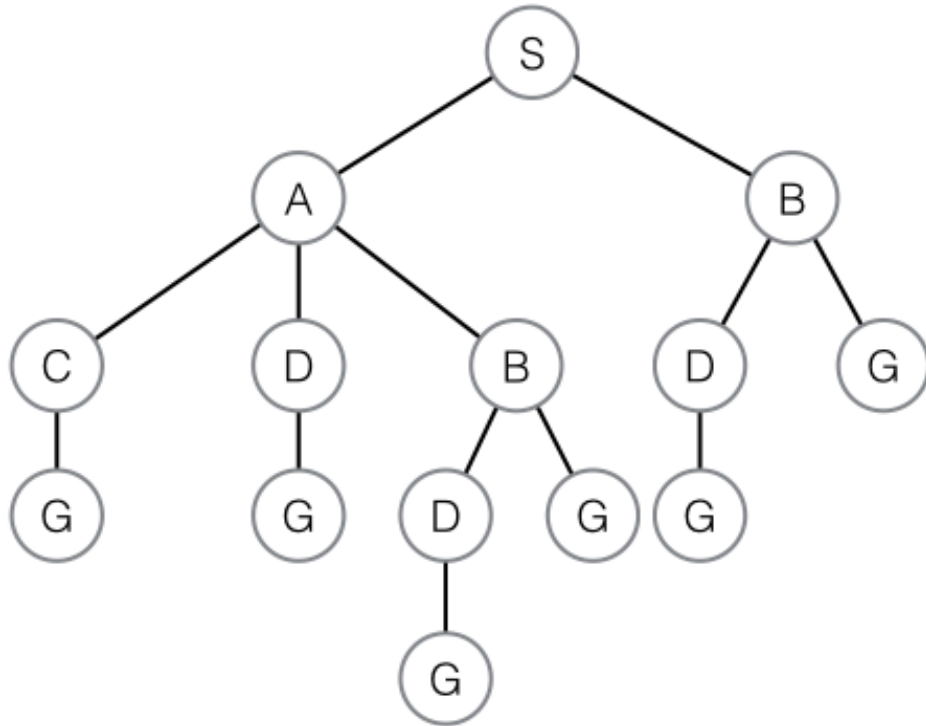


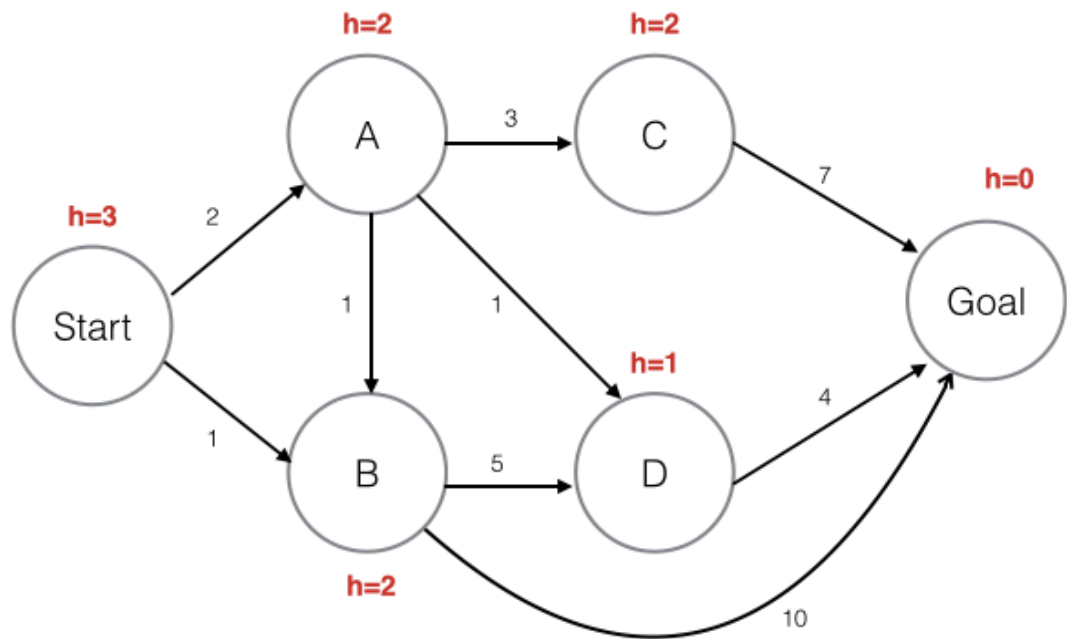
Solution to Homework 1

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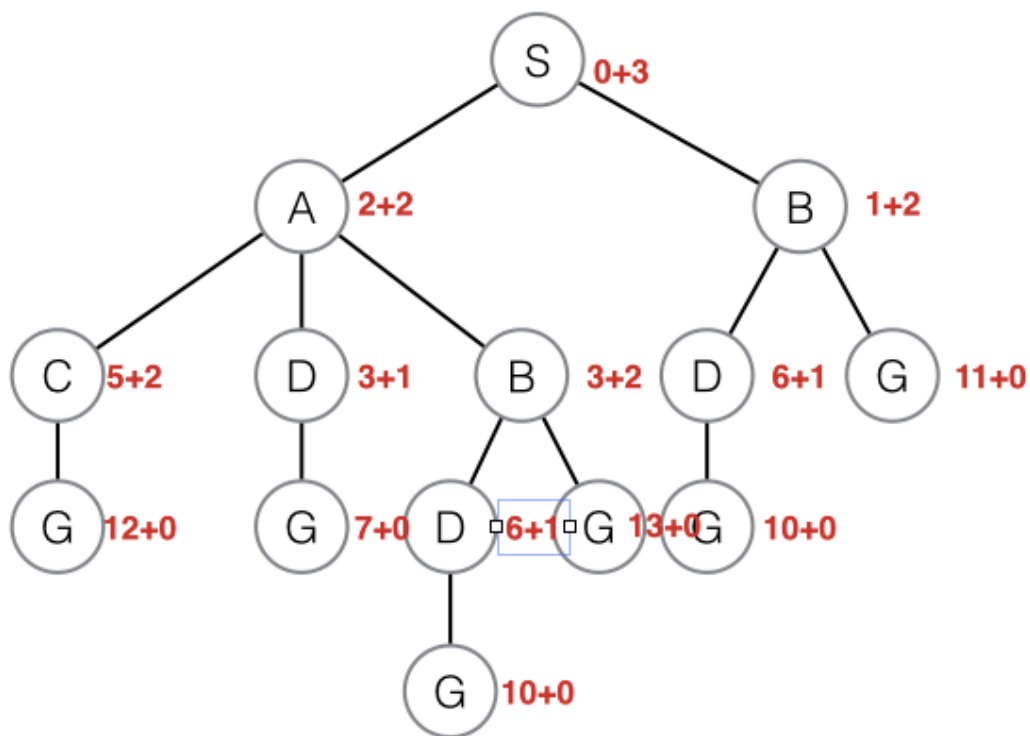
- All these search methods share the same basic tree structure:



- For problem a:
 - DFS has the search path of SABDG
 - DFS has the result as SABDG
- For problem b:
 - BFS has the search path of SABCDG
 - BFS has the result as SBG
- For problem c:
 - UCS has the search path of SBADCG
 - UCS has the result as SADG
- For problem D:
 - Consistent heuristic has the search path of SBADCG
 - Consistent heuristic has the result as SADG
 - $H(n)$ is shown as follow:



o And the tree structure is labelled as follow:



For each point, the the former number denotes the cost from Start point, the latter denotes $H(n)$