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in grown - Step ? Push the starting node A on the stock and sel its STATUS = 2 (waiting state)

. Steps: Repeat Steps 4 and 5 until STACK is empty.

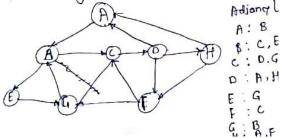
· Step4: pop the top Node N. Process it and set THS STATUS = 3 (processed state)

. Steps: Push on the Stock all the neighbours of N that are in ready state (whose STATUS = 1) of set their STATUS = 2

(waiting state) [END of LOOP]

. STEP 6 EXTT.

Example :consider, growth G along adjacency lists, calculate the order to print all the notes of graph Strarting from A by wing (DFS).



Repeal the same steps

- @ QUEUE: = {c,F} QUEUE2= { A.B.D}
- (5) QUEUE 1 = {F. E. 4} QUEUEZ = { P.B.D. & C}
- 6 quever = {E,G} QUEUEZ= { A.B. D.C. F}
- 7 QUEUEL = 164 QUEAUE 2 = {A,B, DZ, F, E} solution - The minimum path will be A A-+ B-+ C-+E

DFS :-

- DFS: Depth First Search (DFS) algorithm starts with the Instead mode of the graph G, and goes to deeper and deeper until we find the dubination
- The algorithm, then backtracks from the dead end towards the most recent node is yet to be completely emexplored.
- The DFS uses Stack as data structure.

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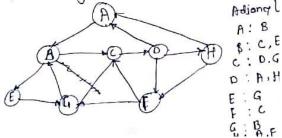
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Solution:-

Push A anto the Stack

O STACK : A

Pop the top element of the Stack A & print it PUSH all the neighbours of A onto stack that are in ready state.

1 Print A Pop the top element of the stack i.e. B & pust all the neighbours of B Into Stack.

(5) print B Stack: C.E Same do all the Steps

(4) print E Stack: G.C

(5) print 4 Stack: C

(6) print C Stack: D

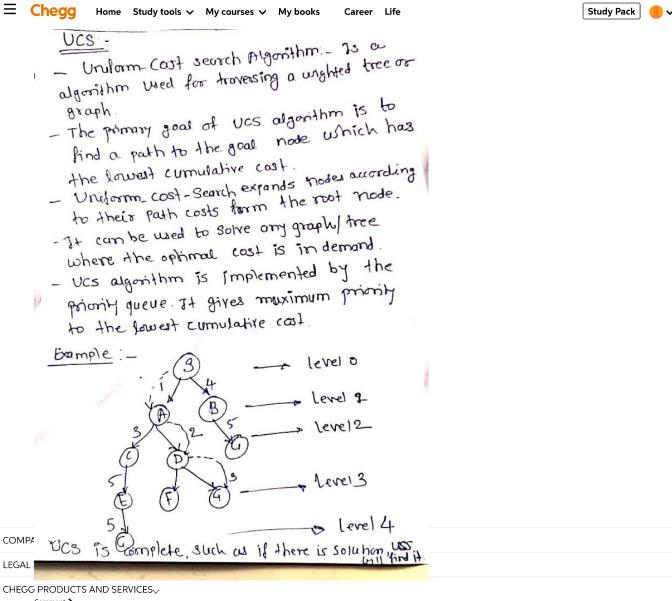
1 print 0

Stack : E. H 3 print H

Stack: F

1 Print F Stack A Stack now becomes empty.

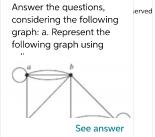
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Let a and b be positive integers. Suppose a function Q is definded recursively follows: Q(a, b) = 0 if a < bQ(a, b) = Q(a-b, b) + 1, if b

See answer

See more questions for subjects you study

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