Example Programs

COMPONDE English Component Component

Lecture 15a
https://powcoder.com
Lists, frees and Graphs

(link do we emantation idenes)

Contents

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- Answer to student query :
- Writing a function to traverse Acrolic were hat powcoder

Graphs: source code

```
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multitree * ::= Empty | Node * [multitree *]

graph :: multitree chartps://powcoder.com

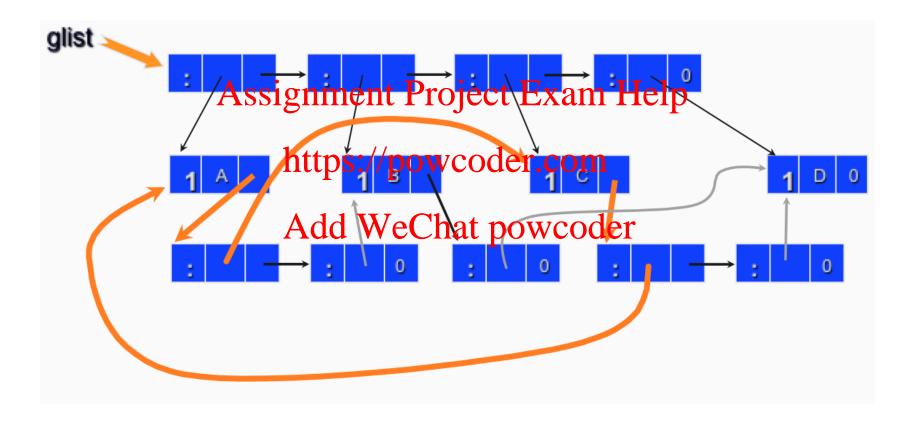
graph = hd glist

glist :: [multitree chardd WeChat powcoder

glist = [Node 'A' [(glist ! 2), (glist ! 1)], Node 'B' [(glist ! 3)],

Node 'C' [(glist ! 0), (glist ! 3)], Node 'D' []]
```

Graphs: representation after evaluating all links



Graphs: source code

```
printgraph :: multitree char -> [char]
      printgraph Empty
    printgraph (Node x gs) = "Node" ++ [x] ++ "["++ (xpg gs [x]) ++"]" Assignment Project Exam Help
  xpg :: [multitree \ char] \longrightarrow [char] \longrightarrow 
xpg((Node \times ns) : gs) y = "Node" ++ [x] ++ "seen" ++ s ++ (xpg gs y), if (member y x)
                                                                                                                                                                                                                                                                                  = "Node" ++ [x] ++ "[" ++ (xpg ns (x : y)) ++ z ++ (xpg gs (x : y)), otherwise
                                                                                                                                                                                                                                                                                                                                 where s = "", if gs = []
                                                                                                                                                                                                                                                                                                                                                                                                                               =",", otherwise
                                                                                                                                                                                                                                                                                                                                                                                                  z = "]" ++ s
```

Example Programs

Summary

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- Answer to student query : Add WeChat powcoder
- Writing a function to traverse a cyclic graph

Example Programs

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Add WeChat powcoder

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