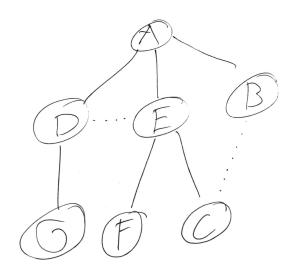
Matthew Tryine 100/40/200

Task?: Breadth-first search



Depth-first search!

Fringe:

 $A, D, E, B, \underline{G}, F, C$ Gal rede

List of redes expanded: A, D, E, B

Closed Set:

A-> D cost 3 D-> 5 cost 9 tetal cost R

Fringe: GEDEDA

expanded nedes!

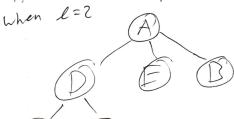
A, D

Closed set!

A-> P P-> 6

iterative deepening search!

(Assuming (=3) When l=1



Fringe: GEBEBA expanded nedes. A, D

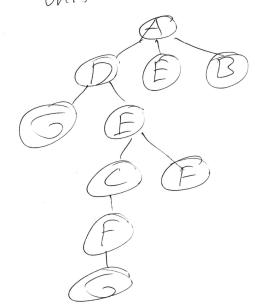
closed set! A -> D

D->G

Fringe: DERK expanded redes: closed set: none

Task 2:

Uniform Cest search:



Visited: A, D, F, C, F

nodes expanded: ADEMICF Closed Set:

ADECF6

Task 3: i. iterative deepening Scarch III. No, because John has a one-to-three correspondence. Maiv. Helen

Task 4: Henristic 1: Not admissible h(B) = 38 -> 45 Heavisdic 2: Not admissible h(A) = 20 -> 60 h(B) = 20 -> 45 h(l)=20 -> 15 N(D)=70 -> 0 M(E)=20-> 45 h(F) = 70 -> 35 Hearistic 3: Not admissible h(c) = 20 -> 15 h(P)=5->0 Henrisdle 4: admissible 1/200=2 C-city