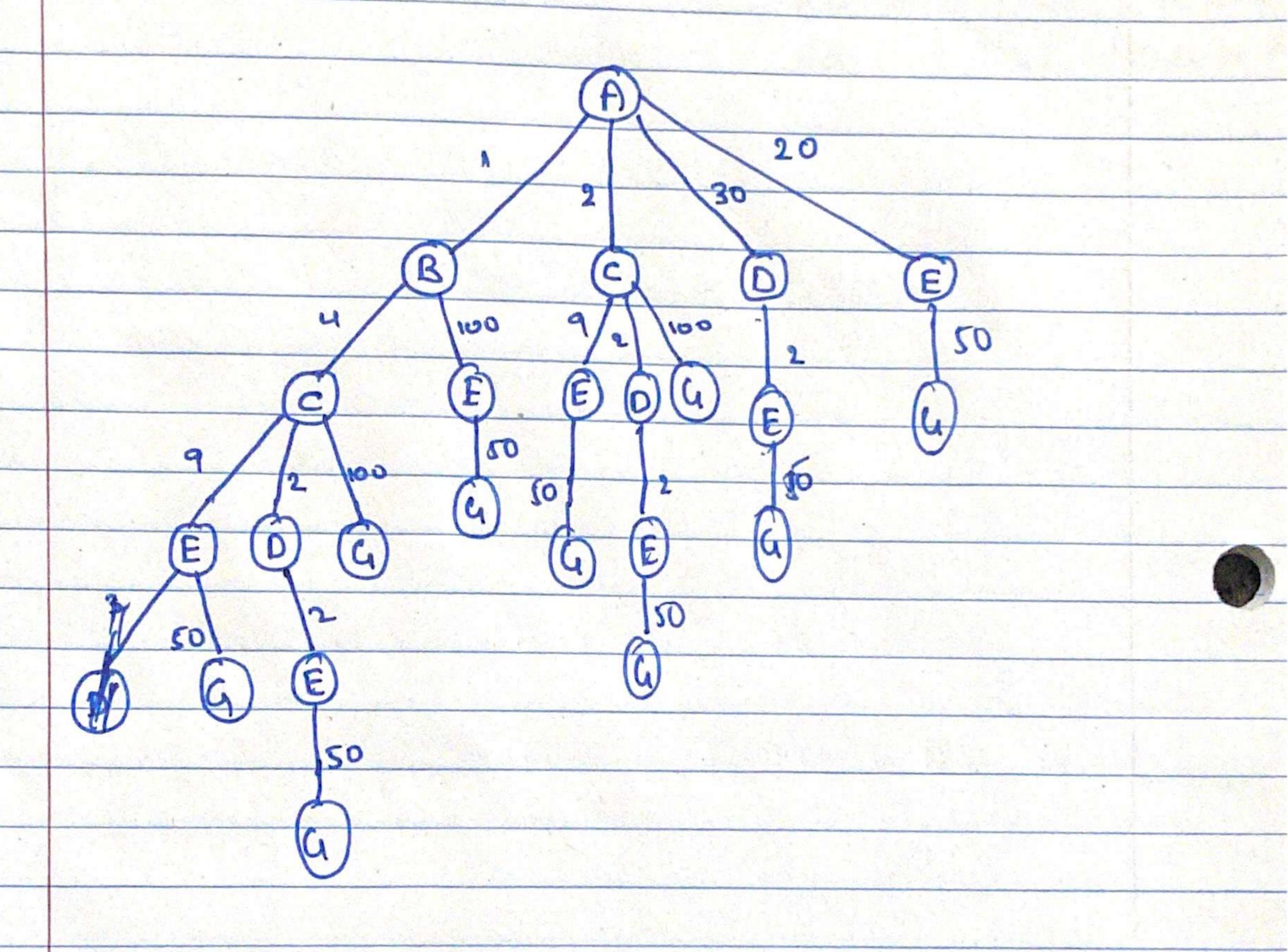
323359

1)

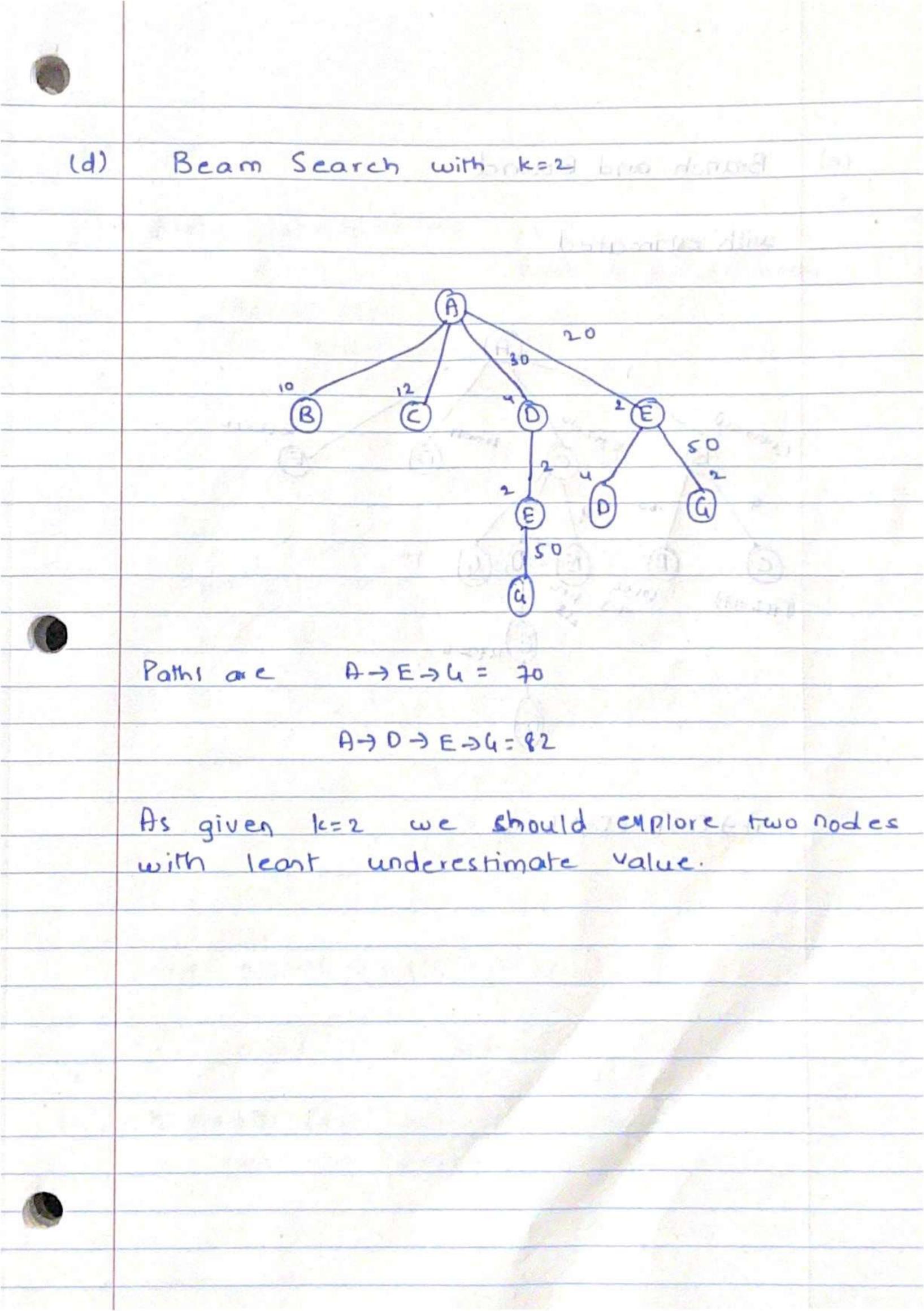
(a) DFS

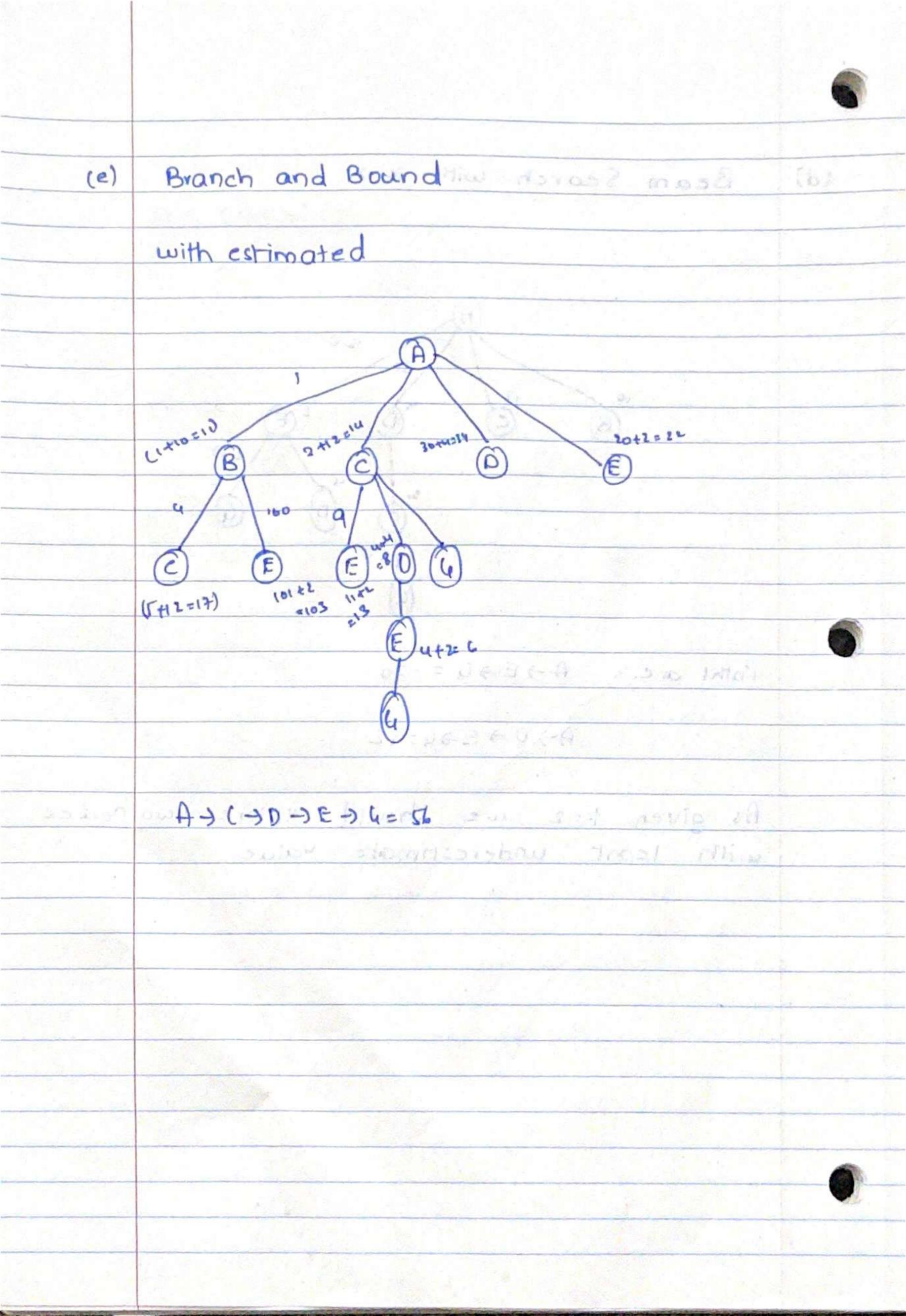


$$A \rightarrow B \rightarrow C \rightarrow E \rightarrow G = 64$$
 $A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow G = 59$ 
 $A \rightarrow B \rightarrow C \rightarrow G = 105$ 
 $A \rightarrow B \rightarrow E \rightarrow G = 151$ 
 $A \rightarrow C \rightarrow E \rightarrow G = 61$ 
 $A \rightarrow C \rightarrow D \rightarrow E \rightarrow G = 56$ 
 $A \rightarrow C \rightarrow G = 102$ 
 $A \rightarrow D \rightarrow E \rightarrow G = 82$ 
 $A \rightarrow E \rightarrow G = 70$ 

(6) BFS 20 20 100 (40 E) E D 20 100 20 20 contract when and and the time the Contract at a contract of the -) To traverse the graph on smoon as possible to root -) It will go by level - by -level -) not a efficient one -) A -) E - 14 = 50

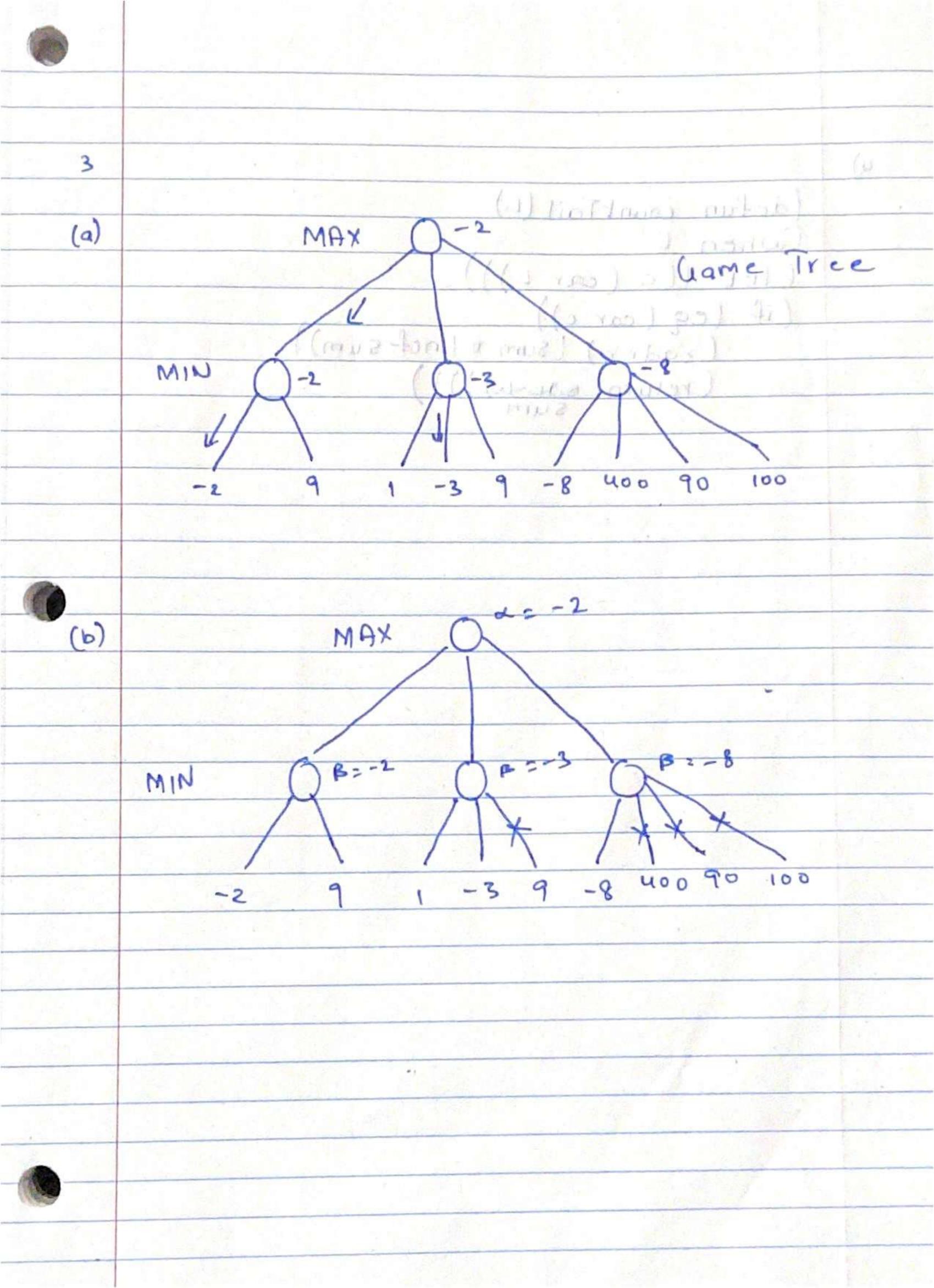
(c) Climbing Hill 20 10 B 50 Shortest Path: A > E > G = 70 It will explore the node that has least -underestimate value DESCRIPTION OF THE PROPERTY OF Tagy El Parathus inval college the 47 f Serio Linguist to a front o hourself the





A\* (f) f(n) = g(n) + h(n) Estimation cost from n to Goal node Actual cost from start node to o 20 20+2=22 (1410 =11) ( 13 mm) ( 10 L) ( 10 A - ( + O - ) E - 36 = 56 Breadth first search - traverse the graph as soon as possible to leaf node.

th, Bud (n) 1 (Bud (x, enercise)) = monk(n) HN, [monk(n) A Bud (n) => mediate(n)] the people (n) [exercise (n) 1 mediate (n) =) Investongering MATE 00 pap 2- 9- E- 1 - P 431



4) defun count Tail (L) XHIM when L (letellc (car L))) (if (eq (car c)) (cadr c) (sum o (incf sum)) ( return edente)))) LILA XAM MINI Of GON 8-B 2 -