alteles of tills extractioned - 24 states the No bachtracking is used 6-1>. 8 10 11 14 13 15 13 14 15 12 f(x) is fixed Low 2 3 2/38/4 6 7 8 2 3/4 8 5 6 8 9 10 9 10 711 10 13,14-15,12 14 15 12 13 6 1 2 3/A 5 6 78 9 10 11 2 4 5 6 38 9 10 7 11 5 C 10 12 elport Udirey a) Atlempting to search this state space for the goldspace it could be to determine whether the goal state reachable from the initial stage assangen (X) Bound fund

Biology West and the second of the second 10 5 2022 ((x) is the estimated mean cost to reach to the goal f(x) is the length of the path from the root to node a g(x) is the path from the good to the node. It is the estimate of length of a shortest path from a to a goal mode in the subtree with a roots. P dam - Finding greatest (c(x) = f(x) + g(x) NP class - Graph colouring 0(1)= 0+3=3 c(2) = 1+ 4= 85 23) 2+1-3 reference for x 2(8) = 2+1=3 C(20) = 3+0=3 13 14 15 (goal) 1(0) EXAMPLEADED STORE OF CHARTENANTS LA The goal mode of fig 1 (b) is reachable from the initial stage if & ten(ri) +a is even Let position(i) be the position number in the initial state of the tiles number i. For any state let less i be the number of tiles j' such that i <i and pos ()>

VIRULENT Law of Independent assortment: It's tates the witteles are inherited independently within H nopratue semially. let 2 01 if in the initial state the empty spotuset one of the shaded position of the figure 100) and n=0 if empty spot is a initially in any of the non-shaded position. first nu calculate less(1) -> less(1) 100 200 300 400 500 60700 871 9-1110-17-0 11-0 12-0- (8) 18 - 1 14 - 1 Mag 15 -> 1 16-> 9 Meder - was to all Eless(i) +x=15+1= even-sogal is readable 1 3 4 15 8-1-9-68-5 2 5 12 7 6 11 14 8 9 10 19 Pains # include < stdio h> # include < stdlib hs # define infinity 9999 # define MAX 20 int GTMAXJ[MAX], spanning [MAX][MAX], n; int prims; is it was back is (1) & a land a land