Kupsack Problem S= \(\gamma_0, \text{IS} = \(\frac{1}{2} \) (very by, very quick). XES X=(XI, ... Xn) Xi = \$0, object not taken F = 5 x P; where P; isthe value of Hem Subject to Z X2 Wi Zc. where W som weight CB the capacity of the bag. TSP. (traveling salesman). S= Set of Parmutation of n objects (cities) XES X = (A, B, C, D, E)/Possible for) 15 = n! NK Problems graph connections. S= 20,13" |S| = 2" . Find the n strategies that max profits. Assuming a function to gives success of agent i in the graph ie; F1 (x, X2, X6) E (X2, X1, X5) · So, find X in S such that maximize total Profits F= Z Fi(Xi, Xi, Xi, Xi, Xi,) Kargs

"Max One" Problem optimum & for

allows is to test our mitahemistics