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min- max Algorithm: min-max Algorithm is a recussive or back-tracking also which is used in decision making and game theory. It provides an optional more for the player assuming that opponents is also playing optimacy. - Min-max algo uses recussive la seasch through In this algo two players players the game. Let take A in initial state of the tree. Suppose maximise takes just turn (when o) which her works case Initial value - infinity, and maxinize will take next tuen which has worst case thit tal value - tinfinity node A - maninges - minimizer maximizes Terminal hode Terminal pode

step2: first we find the utilities value for the maximizes its initial value is -00, so me will compare each value in terms mal state with juitful value of maximizes & determinee ik higher value of maximizes for node 0- (may (15,-00) > map (15,-17) - 15 for node E = (mayo (11, -00) -> may (11, 10) -- 11. for node f = max (11-00) - max (11,-5) = 11 For node G- max (-21,00) = max (-21,0) = 0. no this step, its twoo for minimizes, so we will compare all woder, value with two, ev it will corress the minimum values for podes B- min(15,11) - 11 or nodes (min(11,0) = 0

