* Warne! - Sunil. Gr. Shave + Class 3- BE-IT * Roll Wo 8- 59 + Subject : Is LAB Dol Don Sigm Remark Min - Max Algorithm: Min max algorithm " to ordervisive con back tracking calgo which is Used in Secision - making cand game Sneary. It provides can applicant move for the player assuming that copponent is also playing optimally Min max algo to uses recursion to search Mough the game true. In this also two players from is called MAX and ecalled MIN Min - Max calgo is mostly listed for game playing in AI Lets take A is the initial State of the tree. Suppose maximize takes
find two in which has worst case initia
Value - infinity, and iminimize will
take west twen which has worst case initial Value = + infinity

1- Node A -> Maximize J=>B = C -> Minimize SO DE SE 6 2 4 7 4 10 17 -15] > Tesiminal inade Stef 2 3 For the maximize, its initial value is -of so we will compare lock value in terminal state with initial value of maximize and determines the higher cross values. It wolf find the maximum camong cal. Too mode De mossimar (6,0) = man (6,2)=6 For mode Esmax (4, -0)=> max (4, -7)=4 For mode F: mox (-4, -00) => max (-4, -16)= Too mode G: max (-17, -0) = max (-17, -15)=

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-Maximizer >c - Monomizeo 630 A>E A>F /3>9 - Nurimuzer -4 F16 F17 Ft5 > Texominal mode Terranal Values -) Sate 70. Jon the exect Step, it's a twen for minimize, so it will ecompare all exactes yalue with two, and will find the 3rd layer cross yalue. Fox mode B - Min (6,4)=4 Fox mod C - min(-4,-15) =-4 A-A Manimizer (- Minimizes 4)=B -4/=C AF /15=64 - Maximizer -7 -17 -15 -16

Step 48

Now its a twin for imaximizer

cand it will cagain whoose the imaximum

cof all modes falues and find the

comaximum value for the stoot insole

The mode A: max (4, -4) = 4

A=A - Maximizer

4=B - S=G - Minimizer

6 8 4 7 4 16 47 1-15

Hond it was the complete workflow, of the min-max calgorithm with two flager game.