Recursion = Self-reference

min({1,2,5,-14):=min(41,2,5,74)}
(orrect · But useless ·

Min (11,2,-14) Pick a = 1 q*-min({2,-1}): 907at 50-1 is the min-

recursion curiting small board games like tic-tac-toe. best - move (B, Player)

Return: move & best Pasible
score in
worst-rose SCOVE

for lach move et for Player

for each move at for Player let Ba be the position cufter Playing K Compute Score of best-move (B., other player) keep track of a that Minimizes
the score above.

To Solve towers of Hansi on n disks from 1 to 3 with 2 as Intermediate.

1... D for n=1

1... Move disks I... (n=1) from 1 to 2

with 3 as intermediate 2 - Shift disk n from 1 to 3 3. move 1...(n-1) from 2 to 3 with l as intermediate.

A recursive definition for Permutations. Permutations 0,1,2 · Pick each element. · Permute remaining. · Pich o . Prepend element Pickel 0,1,2 0, 2,1
. Pick
1, 0, 2
1, 0, 2
1, 2, 0 · Pick 2 2,0,1

Say I want to generale all 7ermetations of an n-element Set. If an elt takes I byte of Storage Total Storage for all Permutations. NIXN 2 bytes What is the Smallest n that is bigger than 2327.

