

1 logis. (Boiler templ. for home, is & few in in to chek it val/no. is sale:fund" issafe (baard, st, sc, val) { for (vag i=0; i< 9; i++){ if (board [i][sc] == val || bard[\$ sx][i] == val) { } deturn false: to get {  $vae \times = sx - sx \neq 0.3$ ; } this is similarly to  $x = (\frac{sx}{3}) = 3$ Styl' coordinate  $y = sc - sc \neq 0.3$ ; } this is similarly to  $y = (\frac{sx}{3}) = 3$ If subgrid of the no. for (va ai = x; ix x+3; i++) { for (van j=4; j<4+3; j++){ Subgailed me no. repeat to whi hua: if (bord (i) [j) == val) { seltur false; detum force; How to died in subgrid? If we get co-ordinates of the start cell of this subgrid then we can easily find the bounds too! By few trial & error we can derive the formula: 2=(=)=3 & Y=(+)+3 - (=)+3 & Y=(=)×3

lan for solve sedojeu (boxard, sx, sc) { agr for yahr pohoch jaye then if ( 5x == 9) { denew the board. change Board (board); return; solve Sedaku (board, Srtl, o); ] jaye the change the row 1+ (sx==9) { ) If the cell isn't empty or U if (bogod[sr](se) !=0) { solvesedoky (board, sr, sc+1); I then more to fo nxt cellreturn; for (rag i=1; i2=q; i+t) { == 1-9 no. can be filled if (issafe (board, sr, sc, i)) { - thet I safe board [03] [5c]: 1; sulve sedoku (board, sr, sc+1); board [sr] [(c] :0