Best Cow Line

DP[1][1]

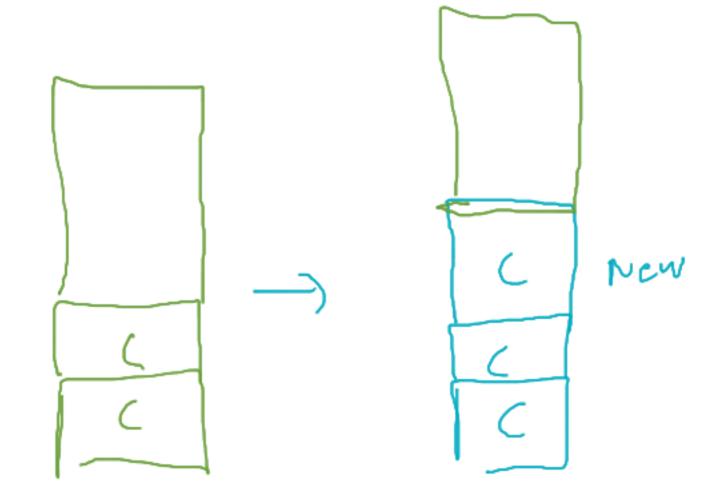
Milk Routing

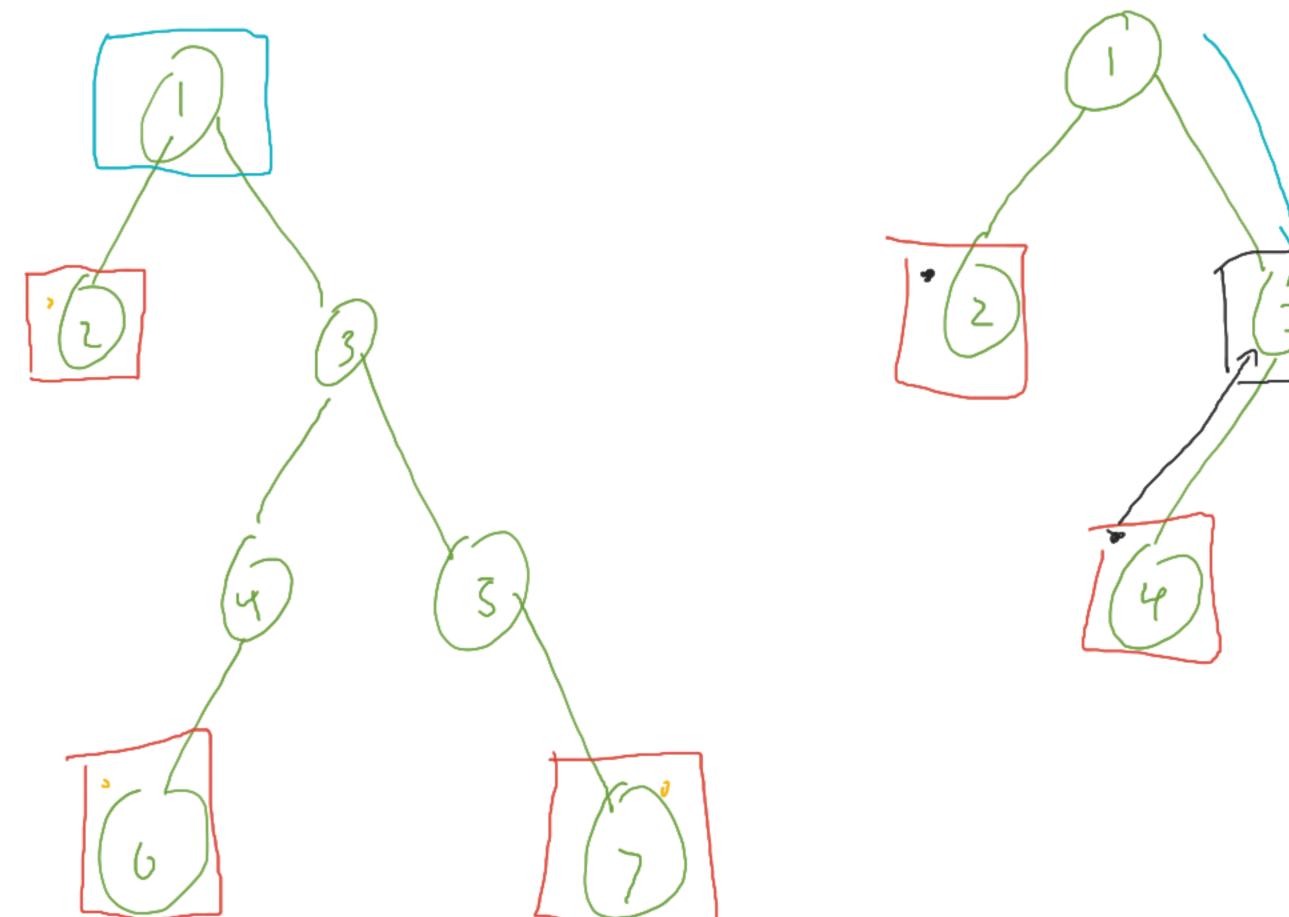
0 (M2 109 M) Ly Do diphotras, using only edges with total number of capacities there can be is M (apacity > = (literate through all () Ly verting min laterray given a capacity L, calculate the cost MINIMUM -> return the

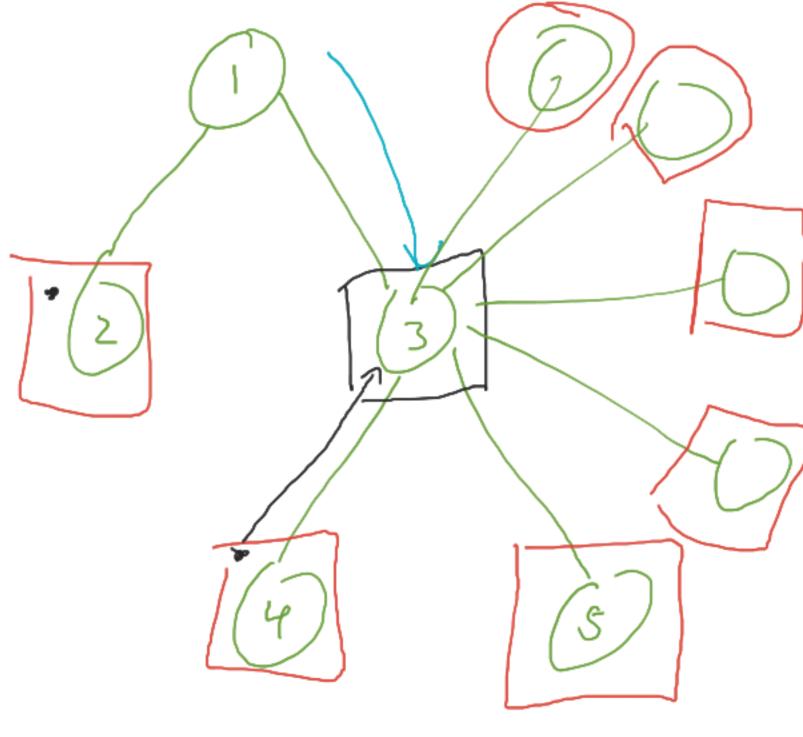
calculated (3,1 adus

Cheese Towers

DP(i+4/5,H(k))[1]







BESSIC direction Farmers

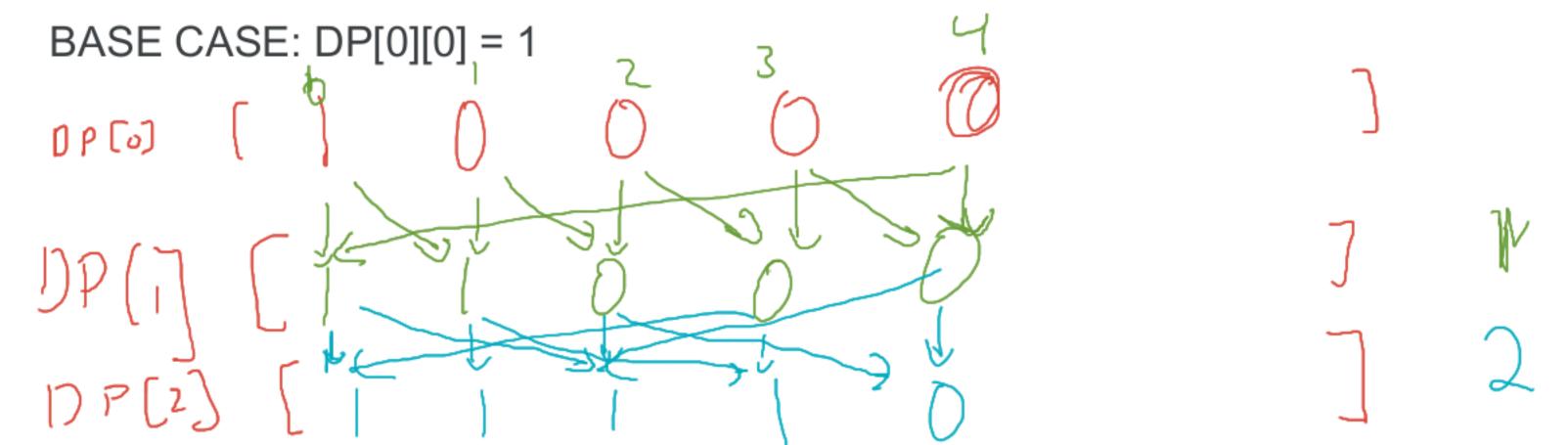
IF girch nucle and fine time somer \leq \time Besie BLOCKEN If (given just node) Mulismie BES Min (time farmer) Ctime Bessie shirld a node be blocked Ly your nodes whose parient cannot be

Work on problem 5 and 6 until 3:35

Cow Frisbee Team

Sample Input: 45 1 2 8 $7 = \pi_{i} 7 =$

DP[i][j] = number of ways to create a team with rating%f == j using the first i cows



$$DP(i)[i] = DP(i-i)[S]$$

$$+ DP(i-i)[$$

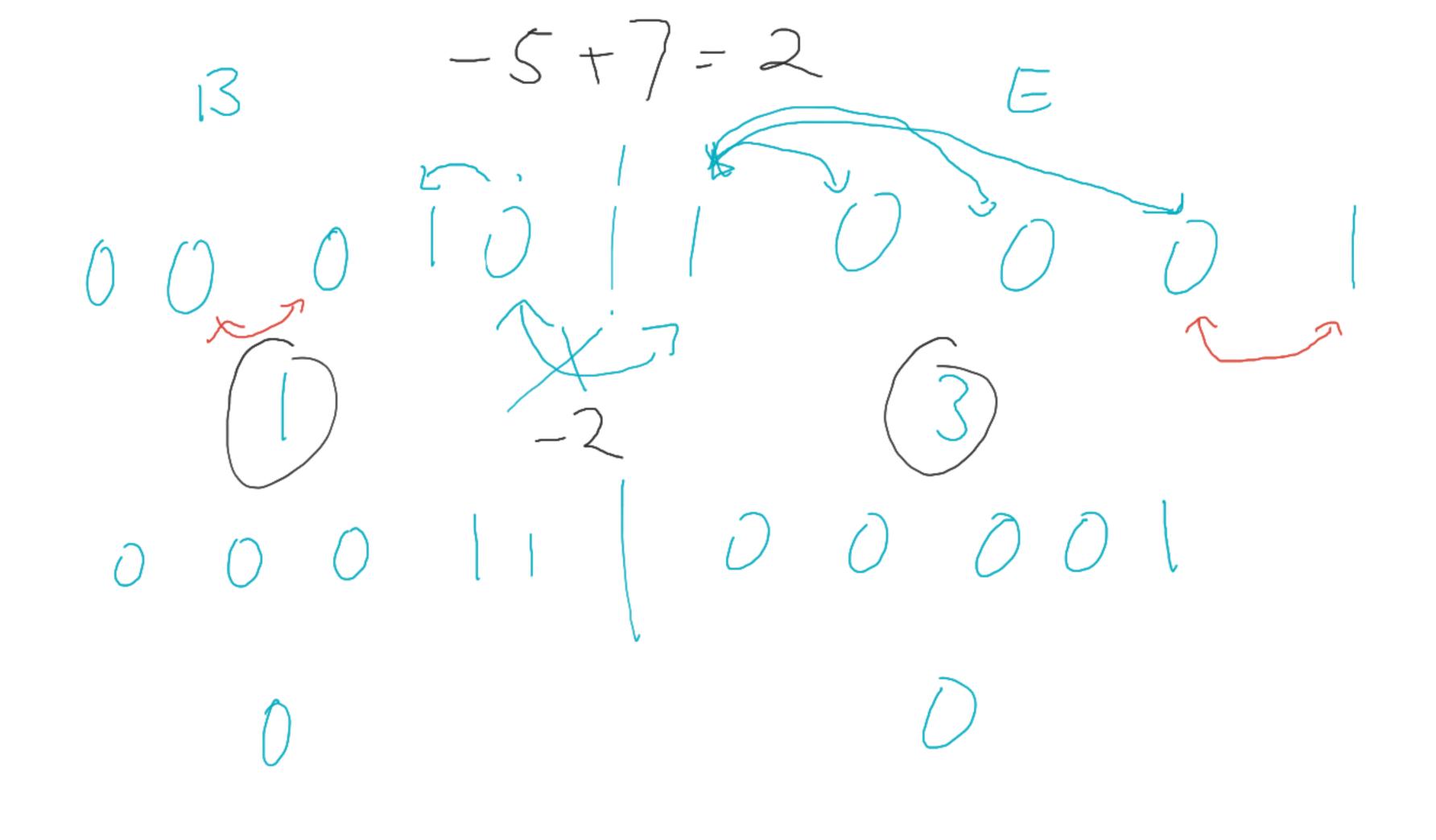
$$Return Value$$

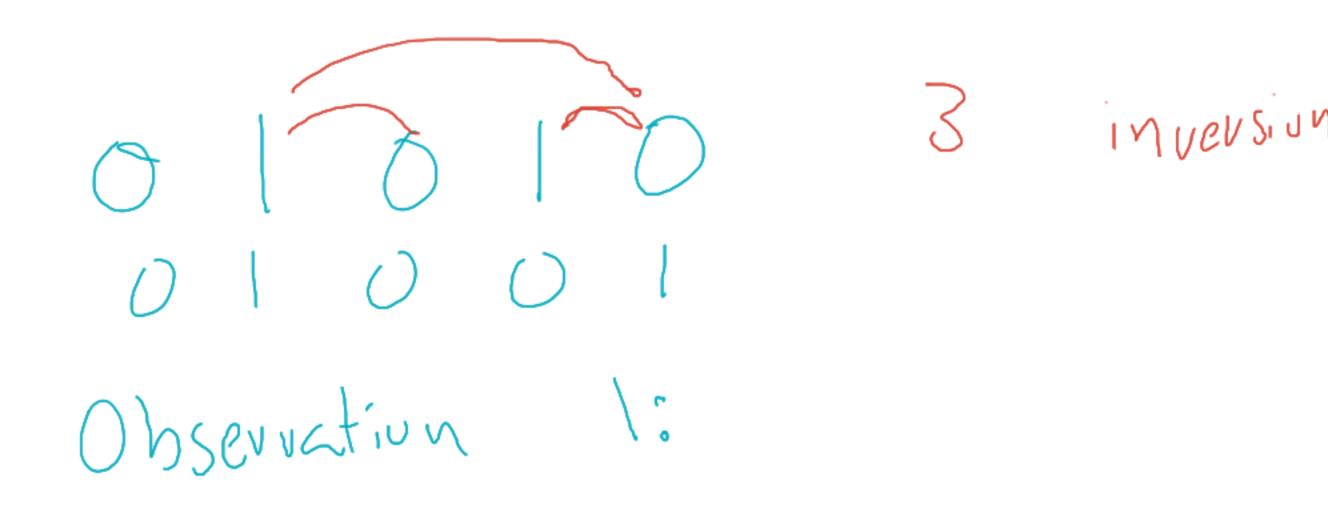
$$DP(n)[O]-1$$

$$(j-R(i)+i)$$

$$P[i-i][S]$$
+ $DP[i-i][-i][-i]$
($i-R[i]+F[-i]$)/₀ F

River Crossing





only swap 0 and 1, not 0 and 0 or 1 and 1

every swap will only change the number of inversions by one if its on the same half

abs(A-13)

Swap in the middle

He

$$O = A - B$$
 $O = A - B$
 $O = A - B$

$$S = A - B$$

$$S = A - N + O_A - B + O_B$$

$$= (A - B) - N + (O_A + O_B - O_T)$$

$$\int_{\Delta} \delta = -N + O_{T}$$

$$\frac{1}{3} = N - 0 +$$

we should only need to do one type of these

$$J = 3$$
 O_{τ}

Pick one of the types of swaps. Search over how many of those swaps (0, 1, .. N) or however many are possible. Using the formulas + our two pointer for finding where to bring the 0/1 from, in linear time, we can compute the difference between A and B given that we do S swaps. Take the minimum value of |A-B| over all of these.

Runting Memory Memory