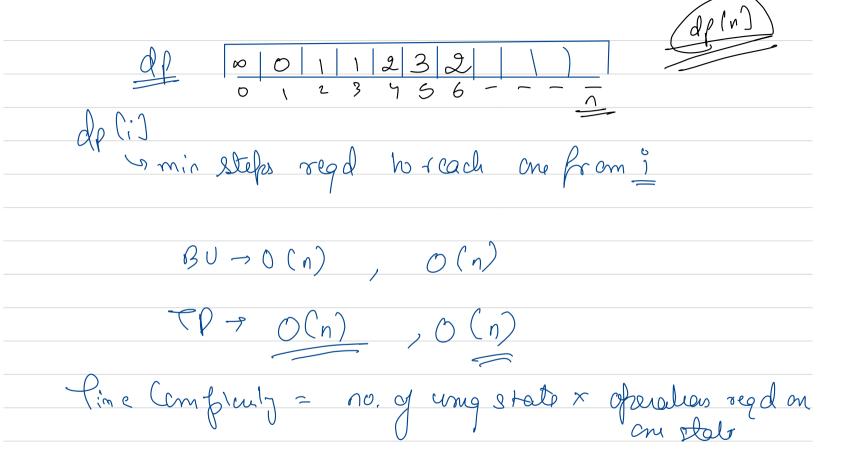
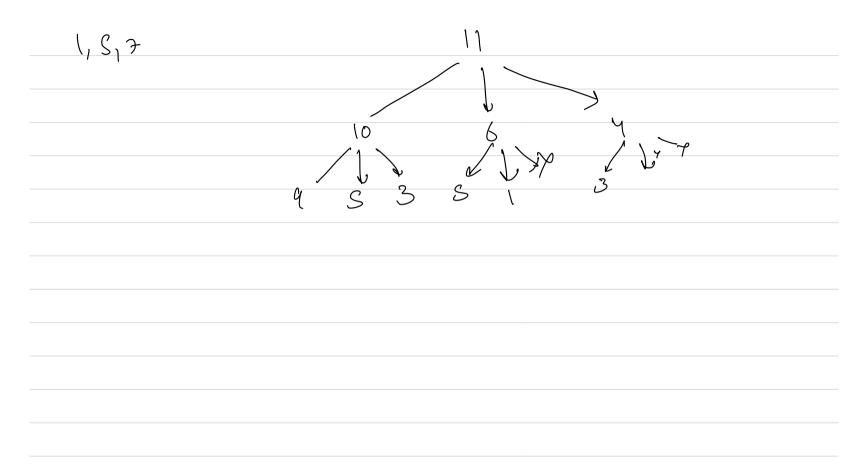


9 10 bal optimier $(a) = 1 + min \{ f(a-1), f(a/2), f(a/3) \}$ n unique states I based indems



(a, 92 933 $\frac{\alpha_2}{2} = \frac{\alpha_3}{2}$ $\frac{\alpha_2}{2} = \frac{\alpha_3}{2}$ (+ min (f (n-a:)) Hui E Roins f that relum min coins regal

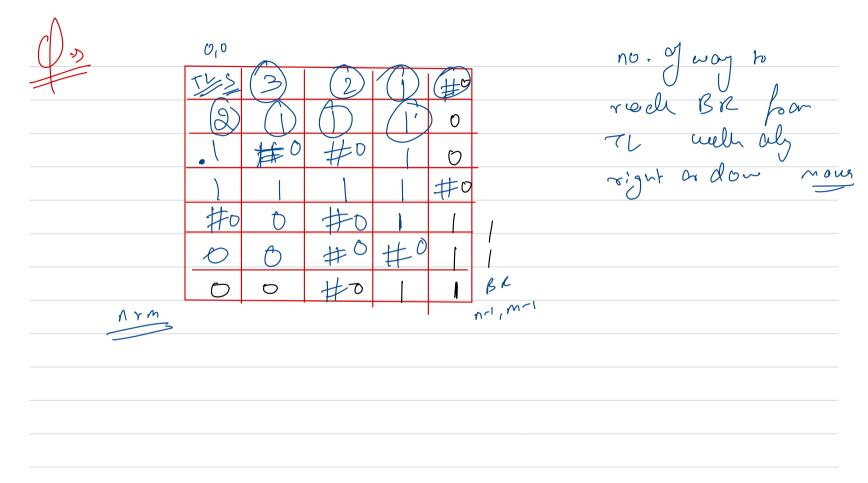


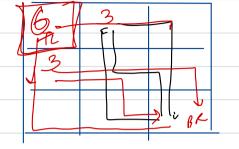
D: Cruen an array of integers, find the largest Subsequence from the array which is Strictly in creasing. Return Hu length $\frac{1,215}{2}$ $\frac{3}{2}$ $\frac{1}{3}$ $\frac{3}{2}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

 $\int (i) = 1 + \max(f(i-j))$ + 1 € [0, i-1] a [i] > a [j] for any i'm element length of longest cm = man (f(i)) + i (0,1-) univasing Subsequence endigad at i

Dir Cruen a rumber on, find the count of no. of kinary strigs (Strings well only 0 & i) 8 uch that there are no consecutive ones. m = 3am > 5

N=1 (10,01,00) n=2 -> 3 ibonacti f(n) = f(n-1) + f(n-2) solun the song with no Conseels ar





$$f(i,j) = f(i,j,j) + f(i,j,j)$$