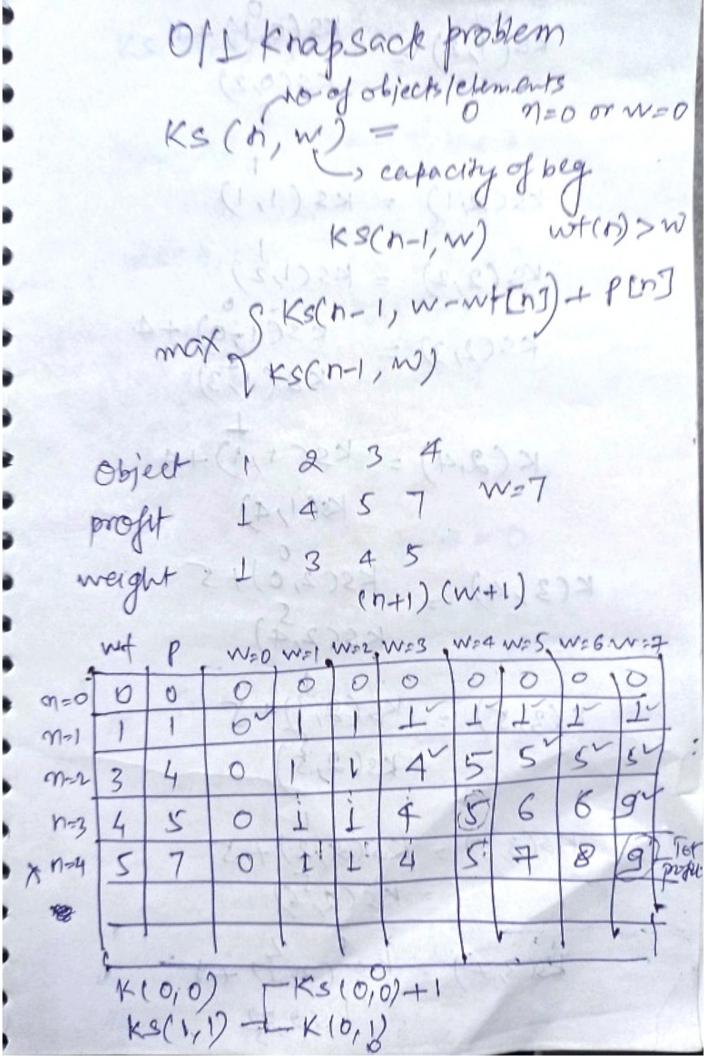
Dynamic frogramming l substructure Libonacie series

Brute fores sea method. April 2" = O(2") + the complexity)
compensal these No of funciall for fabonacei of n fon) memorgation (Top down) m+1 = O(n) polynomial Recursive find of memolipation 9 if (n≤1) if (ADD] != -1) //memoization else nefum A[n]=f(n-i)+f

Bottom-up-DP1 f(n) = ent A[n+1]=8-13; 5 AC0] = 0; ACIJAL for(i=2; e<=n; e++) SACi]: ACi-I]+ ACi-2); return A[r]; A 10 1-11-23 tabulation

3



$$ks(1,2) = ks(0,1) + 1$$

$$ks(2,1) = ks(1,1)$$

$$ks(2,2) = ks(1,2)$$

$$ks(2,3) = ks(1,2)$$

$$ks(1,3) = ks(1,3)$$

$$k(2,4) = ks(1,1) + 4$$

$$ks(1,4)$$

$$k(3,4) = ks(2,0) + 5$$

$$ks(2,4)$$

$$k(3,5) = ks(2,1) + 5$$

$$ks(2,5)$$

$$ks(3,6) = ks(2,2) + 5$$

$$= ks(2,5)$$

$$ks(3,7) = ks(2,3) + 5$$

$$ks(3,7) = ks(2,3) + 5$$

$$ks(2,7) = ks(2,3) + 5$$

KS(3,0)+7 KS(4,5) = KS(3,5) KS(3,1)+7 KS(4,6) = KS(3,6) 145(4)7)= KS(3,2)+7 KS (3,7) toto get final omsver How monny objects are included 0 1 1 0 4+5=9 Ans = (n+1)(w+1)= 0(nw)