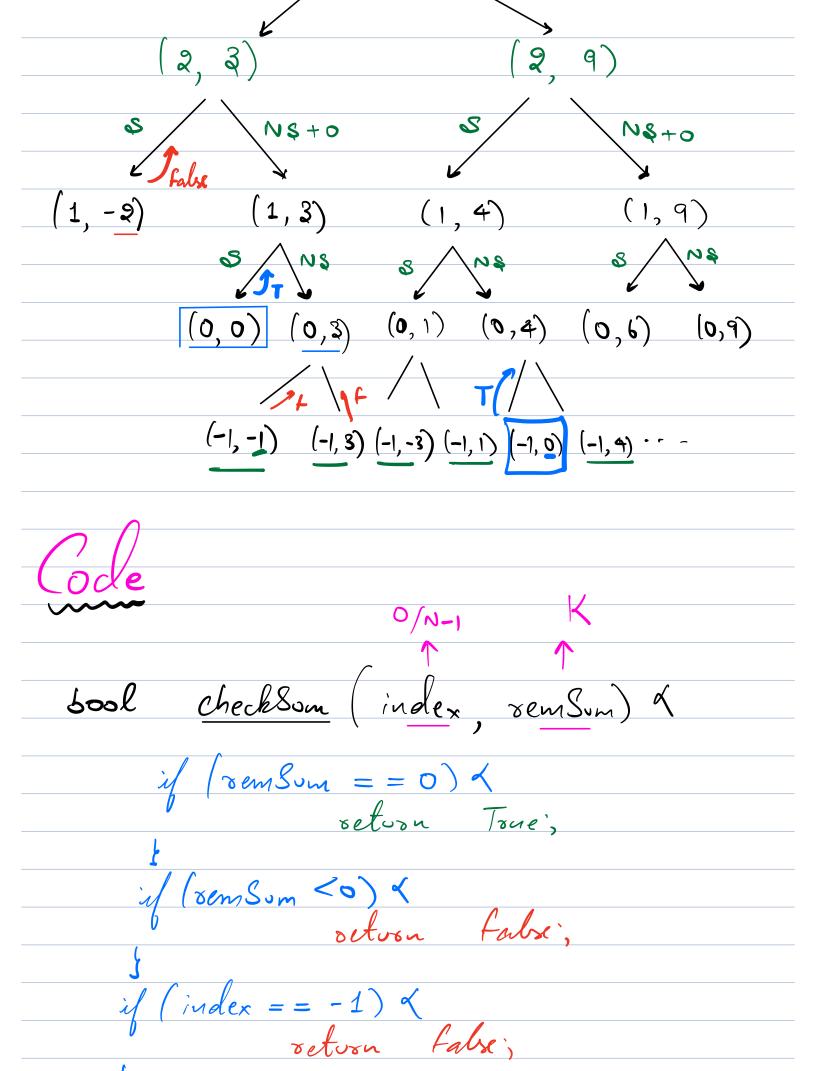
Given an array of non negative integers.

Return Arme of there exist a non

empty subset with a given Sum K. $A = \begin{bmatrix} 0 & 1 & 2 & 3 & 4 & 5 & 6 \\ 3 & 3 & 4 & 3 & 4 & 12 & 5 & 2 \end{bmatrix}$ <4, sb ₹3, 4, 2 € Sol 1) Bonte Porce Generate all sussets & calculate $A = \begin{bmatrix} 4 & 3 & 5 & 6 \\ 4 & 3 & 5 & 6 \end{bmatrix}$ (3, 9)



$$(1,-1) (1,3) (1,4) (1,8) (1,1) (1,5) (1,6) (1,10)$$

$$(0,0) (0,2) (0,8) (0,2) (0,3) (0,6)$$

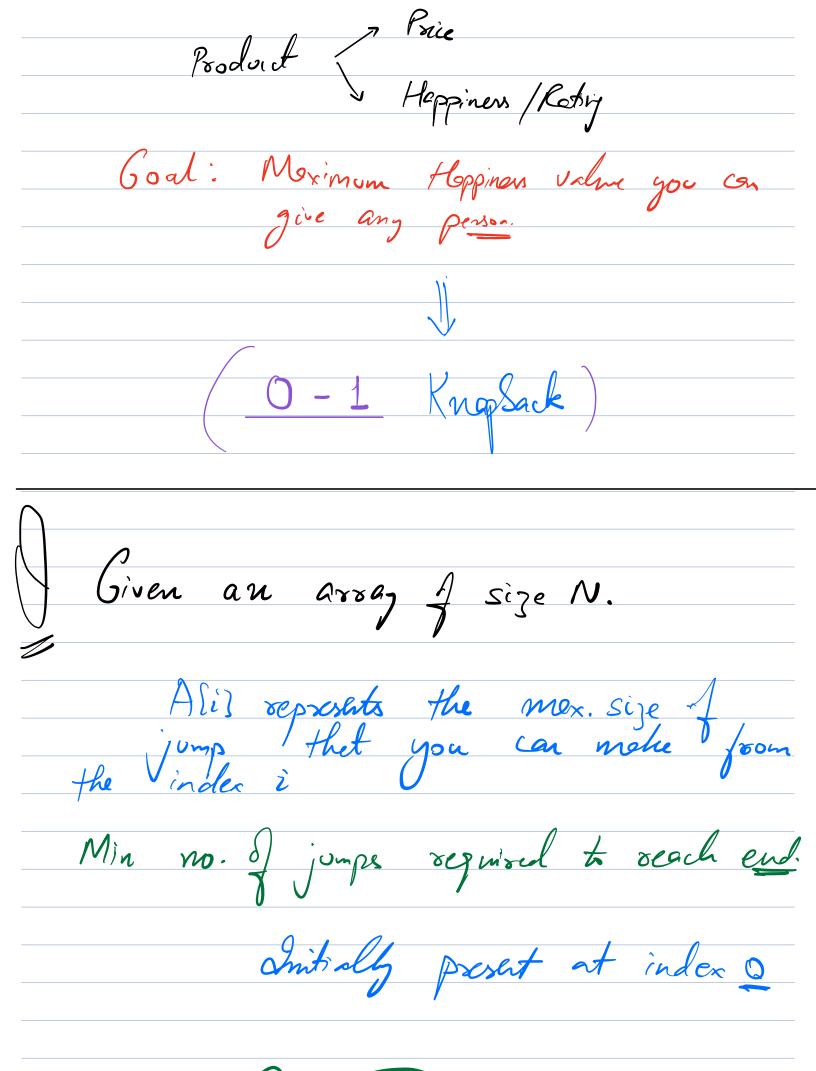
$$index SemSin.$$

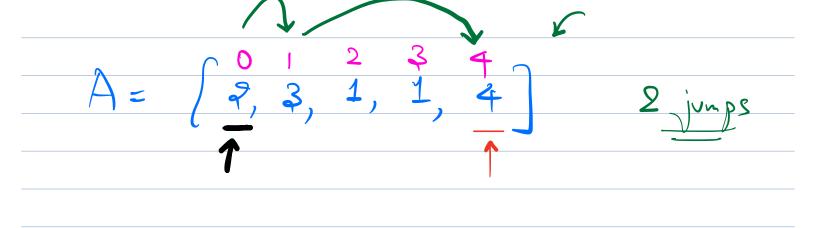
$$Sool DP[N+1][K+1] = < false$$

$$index SemSin.$$

$$ind$$

11 DP [i-1][j]; DP[i][j] = DP[i-1][j]; DP[N][K]; O(N×K) $O(N \times K)$ 0 (2xk) Flipkart >> Offer > Recommend C -> Amount of money Recommend the Gest products (Ratings) Moppiners





2002 1) Elements of Choice

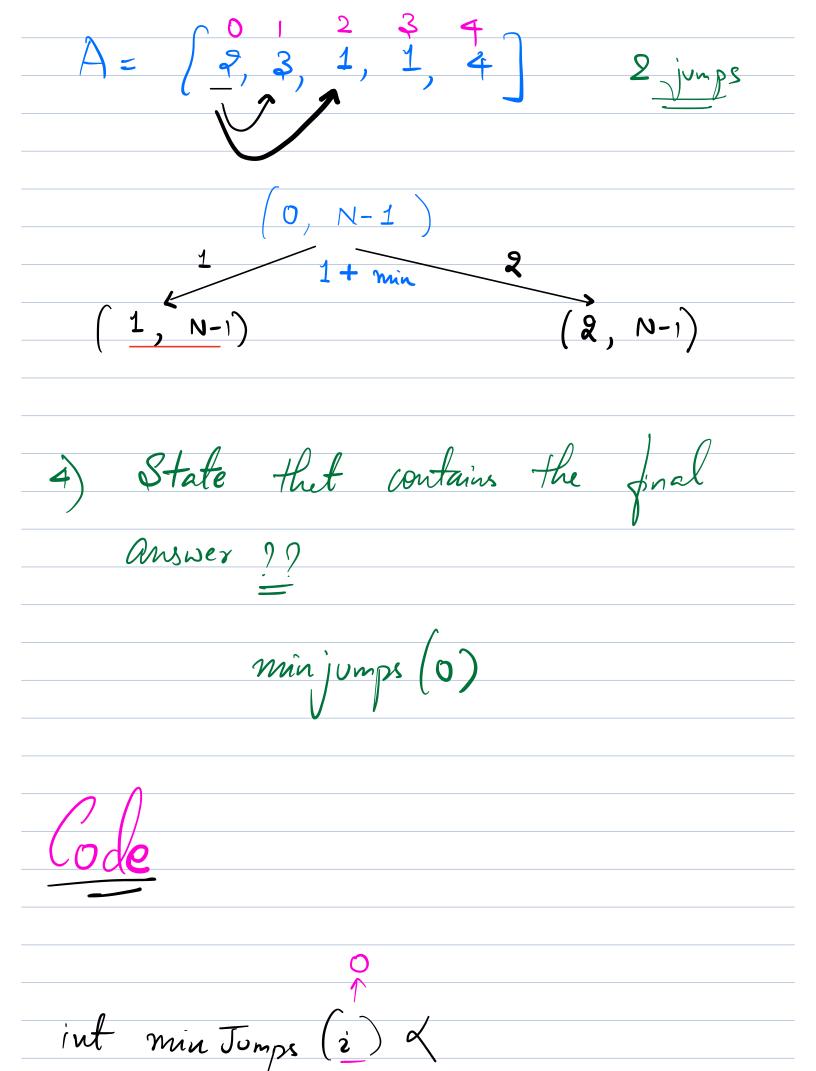
[1, A[i]]

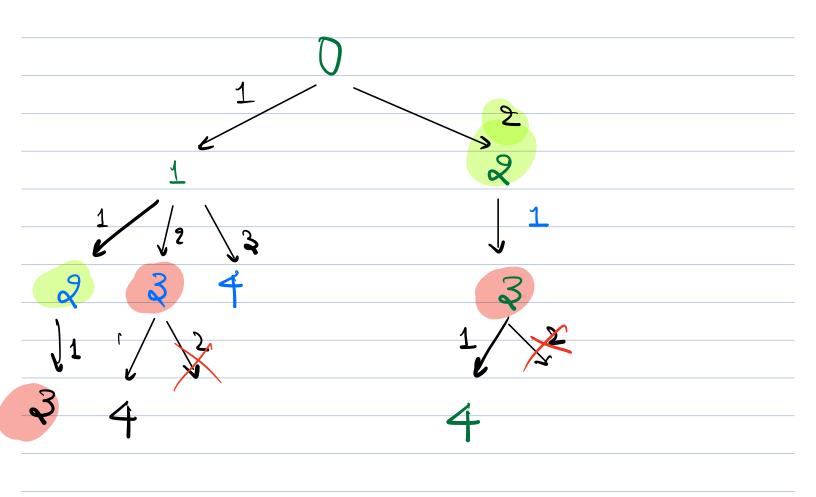
2) State

min Jumps $(i) \Rightarrow Min mo.$ jumps required to reach (N-1) from i.

3) Recurrance velu

min Jumps (i) = 1 + min min Jumps (i+) $\frac{1}{j \text{ from 1 to Alij}} \text{ if (i+j < N)}$





int min Jumps (2) &

$$if (i == N-1) <$$

(i+) < min (N-1, INT MAX; for (j= 1; j <= A[i]; j++) < if (i+j < N-1) <ans = min (ans 1+ min Tumps (i+j)) breek; DP(i) = ans; return ans;

return 0;





i i+1 i+2 i+3 ... i+A(8)

ans = INT_MAX;

for
$$(j=1; (i+j) \leq min(N-1, i+A[i]); j++) \leq$$

ans = min (ans, 1+1)P(i+j));

DP[i] = ans;

return DP[0];

$$T.C. = O(N^2)$$

$$S.C. = O(N)$$

