Minimum Cost to Cut the Shek

Problem Statement:

Given a wooden stick of length n units. The stick is labelled from 0 to n. For example, a stick of length 6 is labelled as follows:

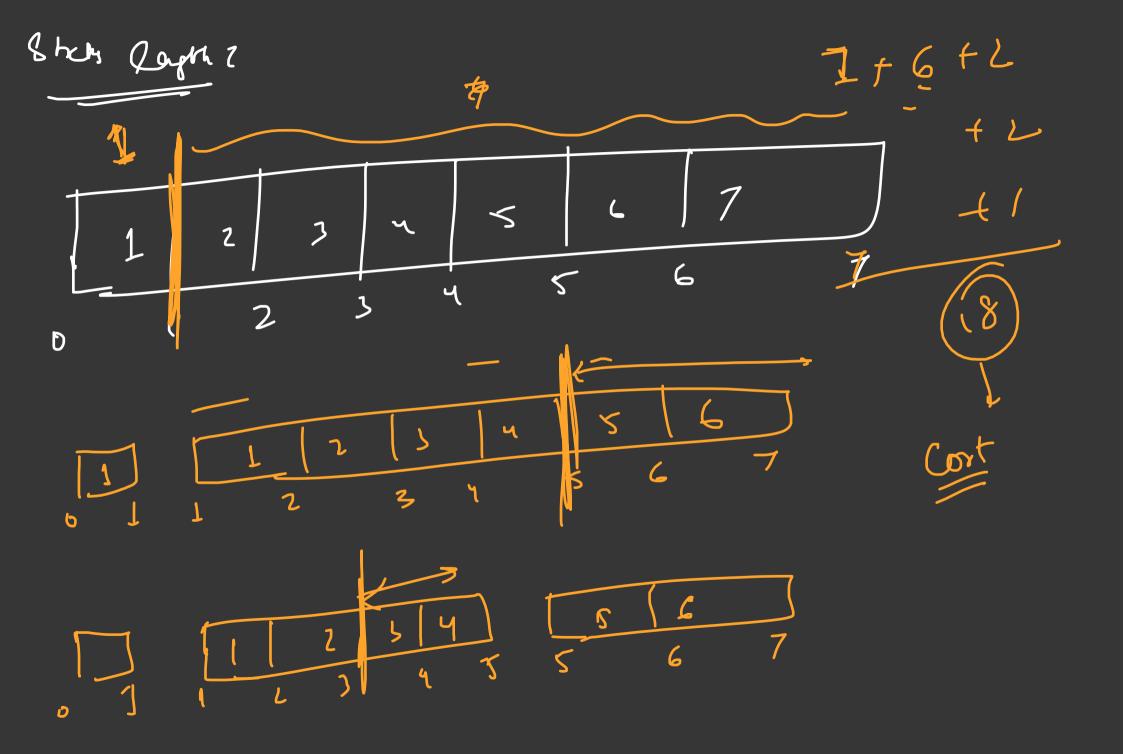


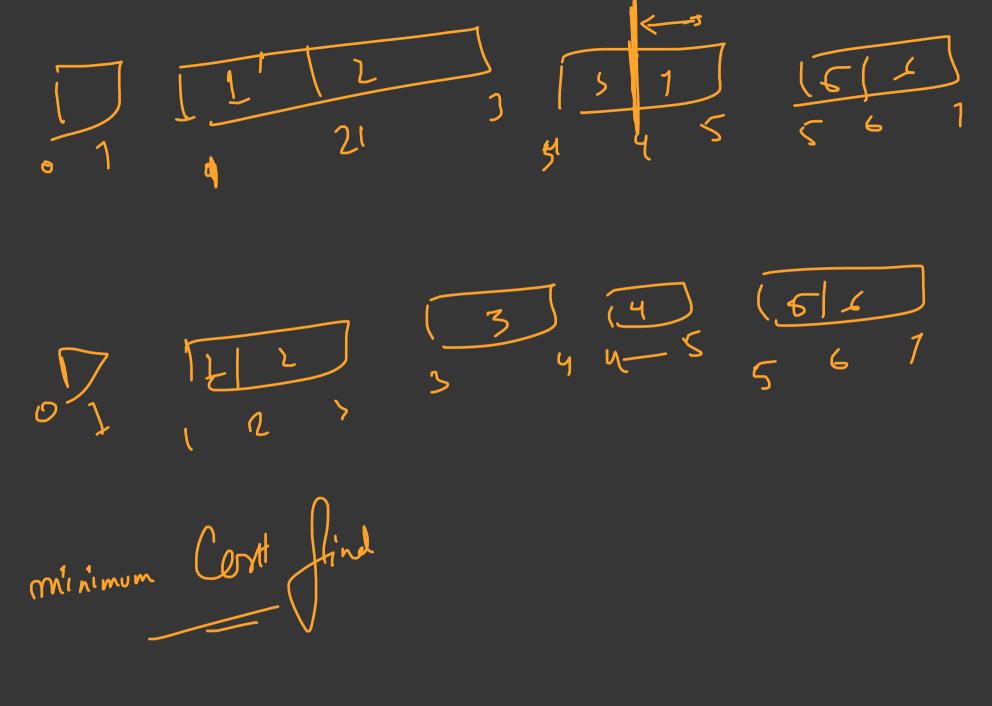
Given an integer array cuts where cuts [i] denotes a position you should perform a cut at.

You should perform the cuts in order, you can change the order of the cuts as you wish.

The cost of one cut is the length of the stick to be cut, the total cost is the sum of costs of all cuts. When you cut a stick, it will be split into two smaller sticks (i.e. the sum of their lengths is the length of the stick before the cut). Please refer to the first example for a better explanation.

Return the minimum total cost of the cuts.





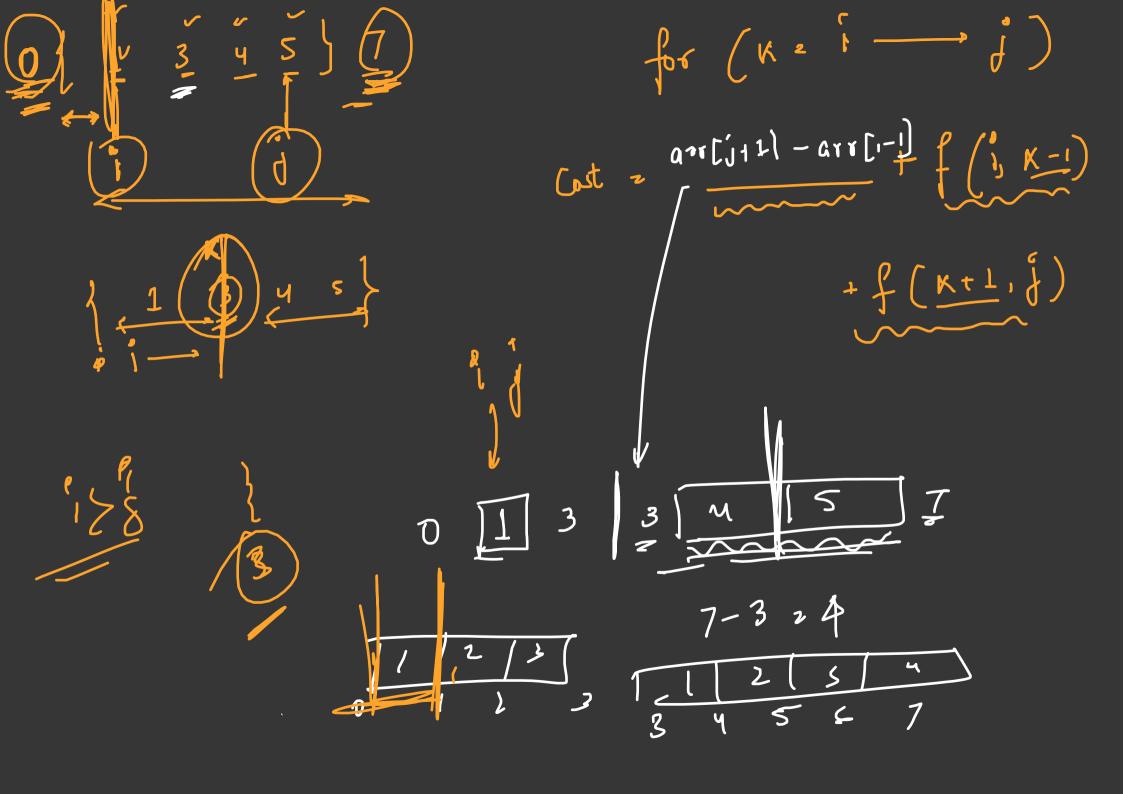
· First we have to sort the cut array.

1 3 4 5 0 50 ment after cutting the Funcining shek écan be & Ulve independents J. Itwill be present all element offer this is 9 Teakson dalle elment before kvis ; smaller

It winot soot the array 1 3 | 5 2 11.33 (s.6) It is dependent on index 2 which is on other side Cost of the stick in which element is present80, $0 \neq 1$, 3, 4, $5 \neq 7$ Out = arr[j+1] - arr[i-1], + f(i, K-i) + f(K+1, d)

 $\frac{1}{1}$

shck



Recursive Junchion! Stat array 7/ler Block and f (1,j) 16 cm carri if (ikz)) rahvar 0; Storet with mini 2/184, (at = arr [j+1] - anr[1-1] + f(7, K-1) parnhim + f (K+1,) mini 2 min (mini, Cost)