Burst Ballmon

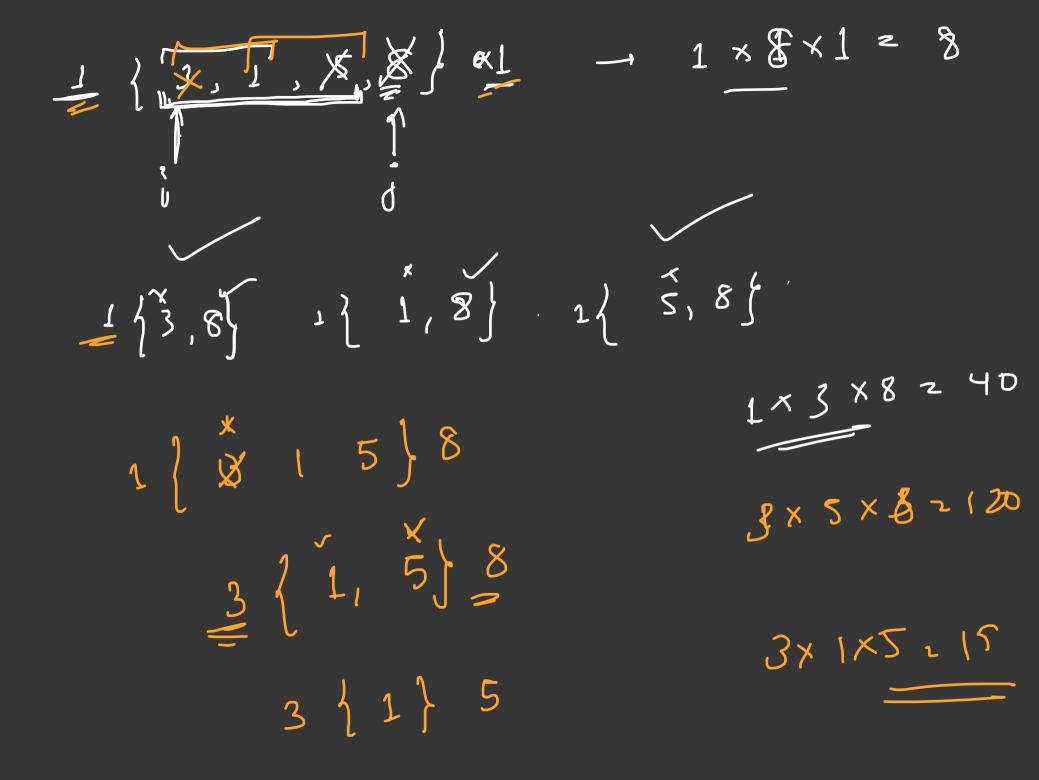
You are given n balloons, indexed from 0 to n-1. Each balloon is painted with a number on it represented by an array nums. You are asked to burst all the balloons:

If you burst the i^{th} balloon, you will get nums[i-1]*nums[i]*nums[i+1] coins. If [i-1] or [i+1] goes out of bounds of the array, then treat it as if there is a balloon with a [i] painted on it.

Return the maximum coins you can collect by bursting the balloons wisely.

3×1×52 16 3×5×8 2 120 3 x 8 x 1 2 LK5 XI 2

Idea to solve the problem is to thick in backward fershim $\frac{1}{3}$, $\{3,8\} \rightarrow [x_3x_8 = 24]$ $\{8\} \rightarrow 1x \leq x_1 = 8$



Recursive Junchon (176) remonoi for (R-21, KEP, K+t) Cout 2 arr[i-]) x arr[K] x arr[Ú+1] + f(1, K-1) + f(K+1, 0) 1 73 (1) (5) 5 1 × 5 1

6 to While very partition in to boy finding last burst ballon the partition are independently as it depends on expresse left and expresser right alment.

It is Similar to MCM problem.