IBM 01 June 2025 07:50 Break-the-bricks There are n bricks arranged arranged in row position. PP 23. In enteger - force o in Newton to 5 magh the so hamers brick Smaller hammer

Smaller hammer

Smaller hammer

Stednices the blow reduces

newton by 1 for each

Bighamer blow to a brick L. It can smash the bride Newton of force then small hamsener require 3 blows to small the brick Small hammer requised Small III. 3 times more power to Smash the brick. le 3N = 3 blows It means that brick requires 3 N newtons to break you would need to hit 3 blows with small hammer to reduce ets required force to hero and Smash jett Example: big Hits: 4: -> This means you can use big hammer 4 times. Newtons= [3,2,5,4,6,7,9] eptr problem: we meed to determine 1. Minimum no of blows to smash all the brides 2. the 1-based indices of the brides Smached by small hammer, ascending 3. the 1-based endices of the bricks smashed by big hammer, ascending arder return = [[total hits] [B.H. hits] [Smaller thamen hits]] 1. Sort the brivats in ascending order nish their indices Sorted-bricks = [2,3,4,5,6,7,9] Sorted_bundices 1032456 2. Use big hammer on first 4 sorted indices = [1,0,3,2] 3. Use small hammer for remaining bricks to wordices are = [4,5,6]
the newtons of forces for both hammer Big hammer = 23145 Brick 1032 Indices Emall danner: 679 BK1 C/c 456 Indices Note: This is wrong assumption of pertons sorted en ascending order achiely at the end we need to Bost the indices in ascending order. Now we will implement the correct 25 WH 54: 1. Sort the bricks en descending order It should Stoot with 1 Original order 4 Indies 3 2 5 4 6 7 9 Brick = based 1 2 3 4 5 6 7 Indices Sorted order (descending 9 7 6 5 4 3 2 Brick Indices 2. Use big Hammen: As per given en problem, ne h big Hits are = 4
Means big hammer regnises 4 Newtons to smash the brigks in one blow Means et can smash first 4 brides sorted en ascending order كعلكاكهط 97651 Newtons 7 6 5 3 Indices 1111=4 blows This is because big hammer requires only 1 blow 50 1+1+1=4 3. Now will see about small hammer Remaining beides are smashed by Small hammer bricks Newtons 1432 Indices blows This és due to big hammer = 1 blow. Small hammer 1866 X New tons of small Kammer = 1x4 +1x3+1x2-Answer 1. Total blows = 4+9=13 2. Indices smashed by big hammer, Sørted en ascending order 3. Indices smashed by small hammer jen ascending order