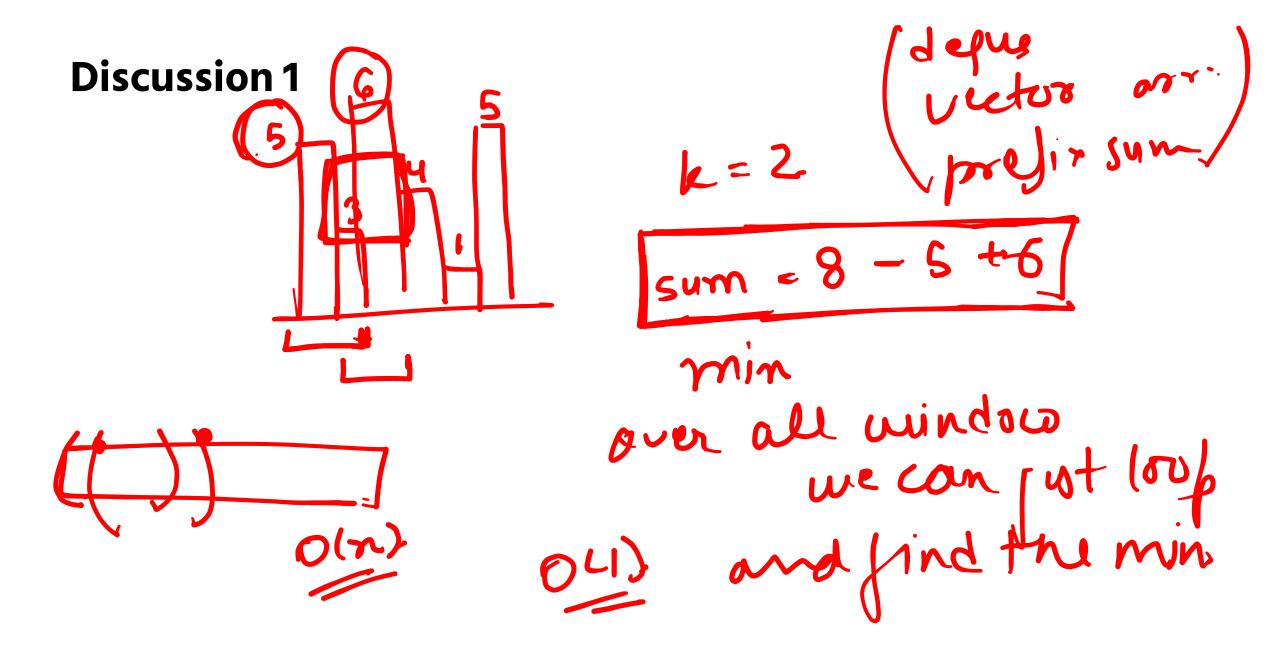
Problem Solving

Prefix Sums, Difference Arrays

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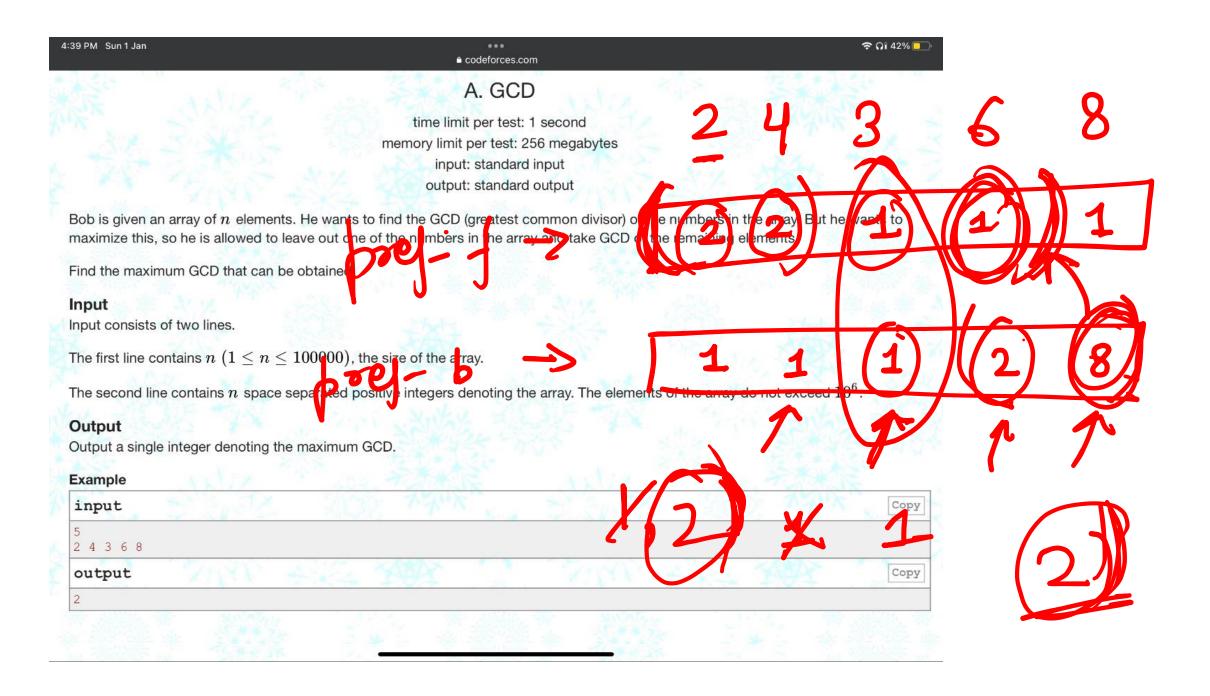
Problems

- <u>Link 1</u>
- <u>Link 2</u>
- <u>Link 3</u>
- <u>Link 4</u>



Discussion 2

array of numbers -> n. and you have to find max ged by excluding it nube. gcd(1,1-1) and gcd(i+1,n)



The Cartesian coordinate system is set in the sky. There you can see n stars, the i-th has coordinates (x_i, y_i) , a maximum brightness c, equal for all stars, and an initial brightness s_i ($0 \le s_i \le c$). Over time the stars twinkle. At moment 0 the i-th star has brightness s_i. Let at moment t some star has brightness c. Then at moment (t+1) this star will have brightness x+1, if $x+1 \le c$, and 0, otherwise. You want to look at the sky q times. In the i-th time you will look at the moment t_i and you will see a rectangle with sides parallel to the coordinate axes, the lower left corner has coordinates (x_{1i}, y_{1i}) and the upper right $-(x_{2i}, y_{2i})$. For each view, want to know the total brightness of the stars lying in the viewed rectangle. A star lies in a rectangle if it lies on its border or lies strictly inside it.

prefsing -> no of stars in 1.1 to sery with initial brightny

S=(0 to c) -> quant of the brightres

they will

after the