

* 2762 : Day Run

* My Logic shortcomings :-

→ accounted for max of window but
not min

→ Too complex logic & $T(n) \approx O(n \log n)$

Best solⁿ is $O(n)$.

→ Using mono queue *2

one for max other for min

Ex: 5 4 3 2 4 → ans = 13

both store indices only
 max Q : ~~(5) 0, (4) 1, (3)~~
 min Q : ~~(5) 0, (4) 1~~

~~5 4 3 2 4~~
~~↑ ↑ ↑~~

$\begin{matrix} \nearrow & \searrow & & \nearrow & \searrow & & \nearrow & \searrow \\ 5 & 4 & 3 & 2 & 4 \\ \nwarrow & \swarrow & & \nwarrow & \swarrow & & \nwarrow & \swarrow \\ & 5 & 4 & 3 & 2 & 4 \\ & R & R & R & R \end{matrix}$

$\nwarrow \swarrow$
 \nwarrow
 \nwarrow

max Q : ~~5, 4, 3, 2, 4~~ || ~~1, 2, 3, 4~~

min Q : ~~5, 4, 3, 2, 4~~ || ~~3, 4~~

$$\text{ans} = 1 + 2 + 3 + 3 + 4 = \underline{\underline{13}}$$

3 6 9

→ do strict maintenance of max Q & min Q
 def checking for abs (num[i₁] - num[i₂])²
 condⁿ of Qⁿ for every num in drums.