

- You are given a permutation $(a_i)_{1 \leq i \leq n}$ of the numbers 1 to $n \leq 5 \cdot 10^5$.
- You want to turn it into a “mountain-shaped” permutation $(b_i)_{1 \leq i \leq n}$, meaning it is first increasing and then decreasing.
- You want to keep as many indices of the permutation the same, so maximize the number of i such that $a_i = b_i$.
- What is the smallest number of indices that need to change?



Illustration of Sample Input 1. Free Pexels
License by PNW Production on Pexels

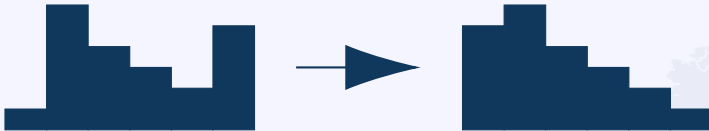


Illustration of Sample 1, where it's optimal to swap the first and last element.
The answer is therefore 2.