$$ac \times ab > \rho$$
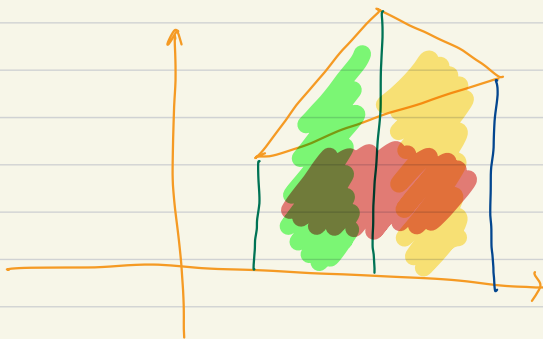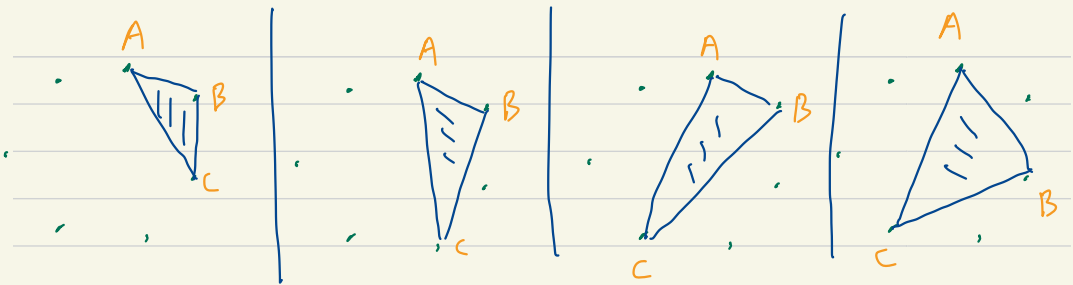
time: $O(n)$ for A, $O(2n)$ for B, C.

total: $O(n^2)$