

$$[a][a].inf$$

$$A = \frac{a_1 + a_2 + \dots + a_n}{n}$$

$$nA = a_1 + a_2 + \dots + a_n$$

$$a_1 + a_2 + \dots + a_n - nA = 0$$

$$a_1 - A + a_2 - A + \dots + a_n - A = 0$$

$$< 0$$

$$O(n^3 \cdot \log W)$$

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