In a warehouse, there is a row of barcodes, where the i-th barcode is barcodes[i].

Rearrange the barcodes so that no two adjacent barcodes are equal.  You may return any answer, and it is guaranteed an answer exists.

**Example 1:**

**Input:** [1,1,1,2,2,2]

**Output:** [2,1,2,1,2,1]

**Example 2:**

**Input:** [1,1,1,1,2,2,3,3]

**Output:** [1,3,1,3,2,1,2,1]

**Note:**

1. 1 <= barcodes.length <= 10000
2. 1 <= barcodes[i] <= 10000