

## 3208. Alternating Groups II

Solved ●

Medium Topics Companies Hint

There is a circle of red and blue tiles. You are given an array of integers `colors` and an integer `k`. The color of tile `i` is represented by `colors[i]`:

- `colors[i] == 0` means that tile `i` is **red**.
- `colors[i] == 1` means that tile `i` is **blue**.

An **alternating** group is every `k` contiguous tiles in the circle with **alternating** colors (each tile in the group except the first and last one has a different color from its **left** and **right** tiles).

Return the number of **alternating** groups.

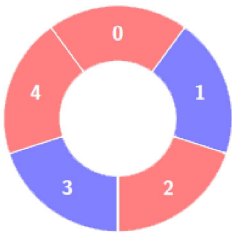
**Note** that since `colors` represents a **circle**, the **first** and the **last** tiles are considered to be next to each other.

### Example 1:

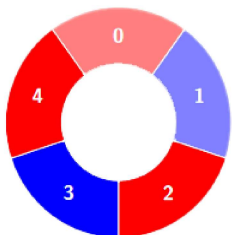
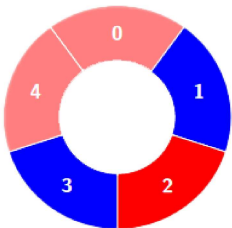
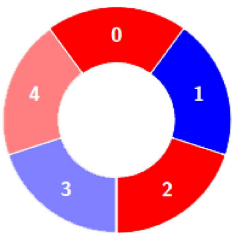
**Input:** `colors = [0,1,0,1,0]`, `k = 3`

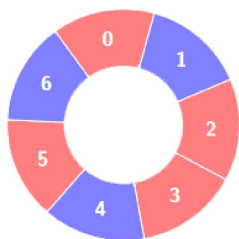
**Output:** 3

**Explanation:**

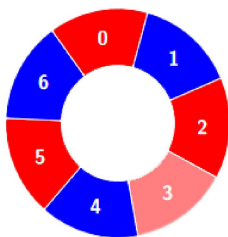
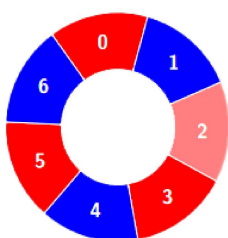
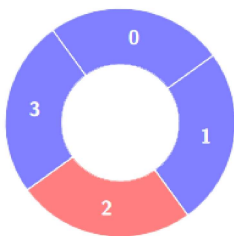


Alternating groups:



**Example 2:****Input:** colors = [0,1,0,0,1,0,1], k = 6**Output:** 2**Explanation:**

Alternating groups:

**Example 3:****Input:** colors = [1,1,0,1], k = 4**Output:** 0**Explanation:****Constraints:**

- $3 \leq \text{colors.length} \leq 10^5$
- $0 \leq \text{colors}[i] \leq 1$
- $3 \leq k \leq \text{colors.length}$

Seen this question in a real interview before? 1/5

Yes No

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Hint 2	▼
Discussion (174)	▼

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