**437. Copy Books**

中文

English

Given n books and the i-th book has pages[i] pages. There are k persons to copy these books.

These books list in a row and each person can claim a continous range of books. For example, one copier can copy the books from i-th to j-th continously, but he can not copy the 1st book, 2nd book and 4th book (without 3rd book).

They start copying books at the same time and they all cost 1 minute to copy 1 page of a book. What's the best strategy to assign books so that the slowest copier can finish at earliest time?

Return the shortest time that the slowest copier spends.

**Example**

**Example 1:**

Input: pages = [3, 2, 4], k = 2

Output: 5

Explanation:

First person spends 5 minutes to copy book 1 and book 2.

Second person spends 4 minutes to copy book 3.

**Example 2:**

Input: pages = [3, 2, 4], k = 3

Output: 4

Explanation: Each person copies one of the books.

**Challenge**

O(nk) time