2526. Find	Consecutive	Integers fro	m a Data	Stream
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 \odot Hint

Medium











Companies

For a stream of integers, implement a data structure that checks if the last k integers parsed in the stream are **equal** to value.

Implement the DataStream class:

- DataStream(int value, int k) Initializes the object with an empty integer stream and the two integers value and k.
- boolean consec(int num) Adds num to the stream of integers. Returns true if the last k integers are equal to value, and false otherwise. If there are less than k integers, the condition does not hold true, so returns false.

Example 1:

Input

["DataStream", "consec", "consec", "consec", "consec"] [[4, 3], [4], [4], [4], [3]]

Output

[null, false, false, true, false]

Explanation

DataStream dataStream = new DataStream(4, 3); //value = 4, k = 3 dataStream.consec(4); // Only 1 integer is parsed, so returns False. dataStream.consec(4); // Only 2 integers are parsed. // Since 2 is less than k, returns False.

dataStream.consec(4); // The 3 integers parsed are all equal to value, so returns True.

dataStream.consec(3); // The last k integers parsed in the stream are [4,4,3].

// Since 3 is not equal to value, it returns False.

Constraints:

- 1 <= value, num <= 109
- 1 <= k <= 10⁵
- At most 10⁵ calls will be made to consec.

Accepted 10K

Submissions 25.1K

Acceptance Rate 39.7%

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No

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