

# Problem 1566: Detect Pattern of Length M Repeated K or More Times

## Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 43.65%

Paid Only: No

Tags: Array, Enumeration

## Problem Description

Given an array of positive integers `arr`, find a pattern of length `m` that is repeated `k` or more times.

A **pattern** is a subarray (consecutive sub-sequence) that consists of one or more values, repeated multiple times **consecutively** without overlapping. A pattern is defined by its length and the number of repetitions.

Return `true` if there exists a pattern of length `m` that is repeated `k` or more times, otherwise return `false`.

**Example 1:**

**Input:** `arr = [1,2,4,4,4,4]`, `m = 1`, `k = 3` **Output:** `true` **Explanation:** The pattern `(4)` of length 1 is repeated 4 consecutive times. Notice that pattern can be repeated `k` or more times but not less.

**Example 2:**

**Input:** `arr = [1,2,1,2,1,1,3]`, `m = 2`, `k = 2` **Output:** `true` **Explanation:** The pattern `(1,2)` of length 2 is repeated 2 consecutive times. Another valid pattern `(2,1)` is also repeated 2 times.

**Example 3:**

**\*\*Input:\*\*** arr = [1,2,1,2,1,3], m = 2, k = 3 **\*\*Output:\*\*** false **\*\*Explanation:\*\*** The pattern (1,2) is of length 2 but is repeated only 2 times. There is no pattern of length 2 that is repeated 3 or more times.

**\*\*Constraints:\*\***

\*`2` <= arr.length <= 100` \*`1` <= arr[i] <= 100` \*`1` <= m <= 100` \*`2` <= k <= 100`

## Code Snippets

### C++:

```
class Solution {
public:
    bool containsPattern(vector<int>& arr, int m, int k) {

    }
};
```

### Java:

```
class Solution {
    public boolean containsPattern(int[] arr, int m, int k) {

    }
}
```

### Python3:

```
class Solution:
    def containsPattern(self, arr: List[int], m: int, k: int) -> bool:
```