Medium ♥ Topics ♀ Hint You are given three integers n, m, and k. An array arr is called **k-even** if there are **exactly** k indices such that, for each of these indices i (0 <= i < n - 1): • (arr[i] * arr[i + 1]) - arr[i] - arr[i + 1] is even. Return the number of possible **k-even** arrays of size n where all elements are in the range [1, m]. Since the answer may be very large, return it **modulo** $10^9 + 7$. Example 1: Input: n = 3, m = 4, k = 2Output: 8 **Explanation:** The 8 possible 2-even arrays are: • [2, 2, 2] • [2, 2, 4] • [2, 4, 2] • [2, 4, 4] • [4, 2, 2] • [4, 2, 4] • [4, 4, 2] • [4, 4, 4] Example 2: **Input:** n = 5, m = 1, k = 0Output: 1 **Explanation:** The only 0-even array is [1, 1, 1, 1, 1]. Example 3: Input: n = 7, m = 7, k = 5**Output:** 5832 Constraints: • 1 <= n <= 750 • 0 <= k <= n - 1 • 1 <= m <= 1000 Seen this question in a real interview before? 1/5 Yes No Acceptance Rate 60.3% Accepted 264 Submissions 438 ♥ Topics Dynamic Programming Q Hint 1 Use dynamic programming. O Hint 2 Store whether the last element was even or odd. **₹** Similar Questions Sort Array By Parity II Easy Discussion (1)

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