5449. Check If Array Pairs Are Divisible by k

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Given an array of integers arr of even length n and an integer k.

We want to divide the array into exactly $\,n\,/\,2\,$ pairs such that the sum of each pair is divisible by $\,k\,$.

Return *True* If you can find a way to do that or *False* otherwise.

User Accepted:	79
User Tried:	132
Total Accepted:	82
Total Submissions:	155
Difficulty:	Medium

Example 1:

Input: arr = [1,2,3,4,5,10,6,7,8,9], k = 5

Output: true

Explanation: Pairs are (1,9),(2,8),(3,7),(4,6) and (5,16)

Example 2:

Input: arr = [1,2,3,4,5,6], k = 7

Output: true

Explanation: Pairs are (1,6), (2,5) and (3,4).

Example 3:

Input: arr = [1,2,3,4,5,6], k = 10

Output: false

Explanation: You can try all possible pairs to see that there is no way to divide arr into

Example 4:

Input: arr = [-10,10], k = 2

Output: true

Example 5:

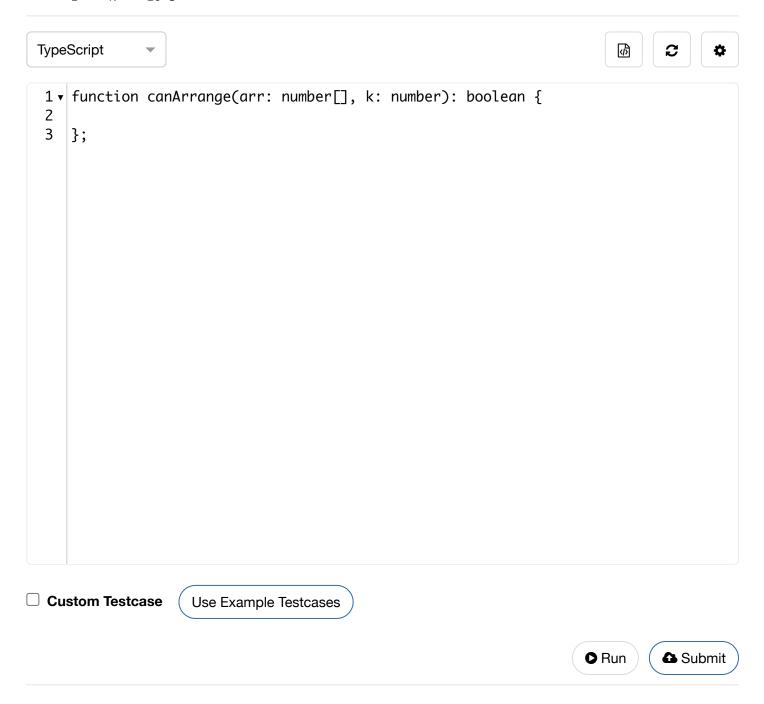
Input: arr = [-1,1,-2,2,-3,3,-4,4], k = 3

Output: true

Constraints:

arr.length == n

- 1 <= n <= 10^5
- n is even.
- -10^9 <= arr[i] <= 10^9
- 1 <= k <= 10^5



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