

# 1497. Check If Array Pairs Are Divisible by k

Solved ●

Medium  Topics  Companies  Hint

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.*

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 (5,10).

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 3 pairs each with sum divisible by 10.

Constraints:

- `arr.length == n`
- `1 <= n <= 105`
- `n` is even.
- `-109 <= arr[i] <= 109`
- `1 <= k <= 105`

Seen this question in a real interview before? 1/5

Yes No

Accepted 132.7K Submissions 297K Acceptance Rate 44.7%

Topics	▼
Companies	▼
Hint 1	▼
Hint 2	▼
Hint 3	▼
Similar Questions	▼
Discussion (122)	▼