

## 5449. Check If Array Pairs Are Divisible by k

[My Submissions \(/contest/weekly-contest-195/problems/check-if-array-pairs-are-divisible-by-k/submissions/\)](/contest/weekly-contest-195/problems/check-if-array-pairs-are-divisible-by-k/submissions/)

[Back to Contest \(/contest/weekly-contest-195/\)](/contest/weekly-contest-195/)

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 pairs.

### 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`

User Accepted: 79

User Tried: 132

Total Accepted: 82

Total Submissions: 155

Difficulty: Medium

- $1 \leq n \leq 10^5$
- $n$  is even.
- $-10^9 \leq \text{arr}[i] \leq 10^9$
- $1 \leq k \leq 10^5$

TypeScript



```
1 function canArrange(arr: number[], k: number): boolean {  
2  
3 };
```

☐ Custom Testcase

Use Example Testcases

Run

Submit

Copyright © 2020 LeetCode

[Help Center \(/support/\)](/support/) | [Terms \(/terms/\)](/terms/) | [Privacy Policy \(/privacy/\)](/privacy/) [United States \(/region/\)](/region/)