

Problem 8: Mixing up Cat Food (Hard)

Time Limit: 1s

Jacob feels like his cat shouldn't only eat 1 type of food. He wants to mix up the food a bit. He can buy N cat food bags, each has G_i grams of food. However, after some number of days, Jacob doesn't want leftover food. Given that Jacob's cat eats K grams of food a day, find the number of pair of bags (G_i, G_j) such that $i < j$ and $G_i + G_j$ is divisible by K ?

Constraints

Note the constraints are different from the original problem and you may need fast input for this problem.

$$2 \leq N \leq 10^5$$

$$1 \leq K \leq 10^9$$

$$1 \leq G_i \leq 10^9$$

Input Specification

The first line will contain 2 space separated integers N and K . The next line will contain N space separated integers G_i .

Output Specification

Output the number of pairs of numbers (G_i, G_j) such that $i < j$ and $G_i + G_j$ is divisible by K .

Sample Input

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6 5
1 2 4 3 5 7
```

Sample Output

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3
```

Explanation

The pairs are $(1, 4)$, $(2, 3)$, $(3, 7)$.