# Made in Haven!

Time Limit per Test: 1 Second

June 5, 2023

An unforgotten legend of *Harmony Haven Emporium* is widely-known amongst Whispering Moon Clan as illogical yet must be followed. There are two rules in *Harmony Haven Emporium* legend:

- Each store owners must not sell leftover items.
- Each buyer must buy in pairs and each item's price is different (If item1's price = 10, item2's price cannot be 10).

Luckily, you were visiting Whispering Moon Clan and they need your help to know a number of leftover items.

## Input

First line is t-number of test cases (1  $\leq$  t  $\leq$  10000). Each test case contains of one line of n (1  $\leq$  n $\leq$  200000) and one line of n-amount of item's price p (1  $\leq$  p $\leq$  109)

# Output

Print t-lines of leftover amount

# Examples

#### Test Case 1

#### ${\bf Input}$

```
      5

      3

      1 2 1

      4

      2 2 6 6

      6

      1 1 2 2 3 3

      7

      4 5 4 5 4 5 4 5 4

      2

      1 2
```

#### Output

```
1
0
0
1
0
```

## 0.1 explanation

In sub cases 1, the buyer must take 1 and 2, therefore only 1 leftover items. In sub cases 2, the buyer must take 2 and 6, another buyer must take 2 and 6.