

## A. Fashionable Array

time limit per test: 1 second  
memory limit per test: 256 megabytes

In 2077, everything became fashionable among robots, even arrays...

We will call an array of integers  $a$  *fashionable* if  $\min(a) + \max(a)$  is divisible by 2 without a remainder, where  $\min(a)$  — the value of the minimum element of the array  $a$ , and  $\max(a)$  — the value of the maximum element of the array  $a$ .

You are given an array of integers  $a_1, a_2, \dots, a_n$ . In one operation, you can remove any element from this array. Your task is to determine the minimum number of operations required to make the array  $a$  *fashionable*.

### Input

Each test contains multiple test cases. The first line contains the number of test cases  $t$  ( $1 \leq t \leq 10^3$ ). The description of the test cases follows.

The first line of each test case contains one integer  $n$  ( $1 \leq n \leq 50$ ) — the size of the array  $a$ .

The second line of each test case contains  $n$  integers  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq 50$ ) — the elements of the array  $a$ .

### Output

For each test case, output one integer — the minimum number of operations required to make the array  $a$  *fashionable*.

### Example

input	Copy
6	
2	
5 2	
7	
3 1 4 1 5 9 2	
7	
2 7 4 6 9 11 5	
3	
1 2 1	
2	
2 1	
8	
8 6 3 6 4 1 1 6	
output	Copy
1	
0	
2	
1	
1	
3	

### Note

In the first test case, at least one element needs to be removed since  $\min(a) + \max(a) = 2 + 5 = 7$ , and 7 is not divisible by 2. If any of the elements are removed, only one element will remain. Then  $\max(a) + \min(a)$  will be divisible by 2.

In the second test case, nothing needs to be removed since  $\min(a) + \max(a) = 1 + 9 = 10$ , and 10 is divisible by 2.

In the third test case, you can remove the elements with values 2 and 4, then  $\min(a) + \max(a) = 5 + 11 = 16$ , and 16 is divisible by 2.

### Codeforces Round 1026 (Div. 2)

Contest is running

01:47:37

Contestant



### → Submit?

Language: GNU G++23 14.2 (64 bit, ms) ▼

Choose file:  No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

### → Last submissions

Submission	Time	Verdict
<a href="#">321061366</a>	May/24/2025 17:44	Pretests passed

### → Score table

	Score
<a href="#">Problem A</a>	482
<a href="#">Problem B</a>	723
<a href="#">Problem C</a>	1446
<a href="#">Problem D</a>	1928
<a href="#">Problem E</a>	2169
<a href="#">Problem F</a>	2892
Successful hack	100
Unsuccessful hack	-50
Unsuccessful submission	-50
Resubmission	-50

\* If you solve problem on 00:09 from the first attempt

Server time: May/24/2025 21:44:51<sup>UTC+7</sup> (k1).  
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