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# 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  $a_1, a_2, \ldots, a_n$ . 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 (  $1 \le t \le 10^3$ ). The description of the test cases follows.

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

The second line of each test case contains n integers  $a_1,a_2,\ldots,a_n$  ( $1\leq a_i\leq 50$ ) — 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



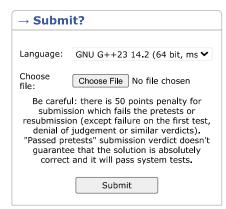
### Note

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.





→ Last submissions		
Submission	Time	Verdict
321061366	May/24/2025 17:44	Pretests passed

→ Score table		
	Score	
<u>Problem A</u>	482	
<u>Problem B</u>	723	
<u>Problem C</u>	1446	
<u>Problem D</u>	1928	
<u>Problem E</u>	2169	
<u>Problem F</u>	2892	
Successful hack	100	
Unsuccessful hack	-50	
Unsuccessful submission	-50	
Resubmission	-50	

<sup>\*</sup> If you solve problem on 00:09 from the first attempt

Server time: May/24/2025 21:44:51<sup>UTC+7</sup> (k1). Desktop version, switch to mobile version.

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