




[Description](#)[My Submissions](#)[Hints/Editorial](#)[AC Submissions](#)[My Notes \(0\)](#)

3 Sum





? Ask Doubt

 Time-Limit: 2 sec

 Score: 0/100

Difficulty : ★★

 Memory: 256 MB

 Accepted Submissions: 100

Relevant For:

AZ-201AZ-202

Description

Given an array A of N integers and an integer $target$, find three integers in A such that the sum is closest to the $target$ (*absolute value of (sum-target) is minimum*). Print the minimum absolute value of (sum-target). You cannot select an index more than one. All three indexes should be distinct.

Input Format

The first line contains T , the number of test cases ($1 \leq T \leq 100$).

The first line contains two space-separated integers $N, target$ where $3 \leq N \leq 10^3, -1e18 \leq target \leq 1e18$.

Next line contains N space-separated integers ($-1e9 \leq A_i \leq 1e9$).

The Sum of N across all test cases $\leq 10^4$.

Output Format

For each test case print the minimum absolute value of (sum-target).

Sample Input 1

Copy

```
1
5 3
1 2 3 4 5
```

Sample Output 1

Copy

```
3
```

C++14[GCC] ▾



1

Submit