

Find the Missing Number

Problem

Submissions

Leaderboard

Discussions

Problem Statement

Given the multiplication of four numbers and three of those numbers, find the missing number.

Note: If the missing number could not be found for the given input, print -1. All numbers are non-negative integers.

Input Format

- The first line will contain **T**, number of test cases.
- For every test case, the input will contain one integer **M** (the multiplication of the four numbers), **A**, **B**, **C** (three of those four numbers).

Constraints

- $1 < T \leq 100000$
- $0 \leq M \leq 10^{18}$
- $1 \leq A, B, C \leq 10^6$

Output Format

- Print the missing number. Don't forget to print a new line after it.

Sample Input 0

```

4
20 1 2 2
10 2 2 1
1 1 2 3
0 3 10 15
    
```

Sample Output 0

```

5
-1
-1
0
    
```

Sample Input 1

```

3
20 5 1 1
18 2 3 3
0 10 20 30
    
```

Sample Output 1

4
1
0

[f](#) [t](#) [in](#)

Submissions: [241](#)

Max Score: 20

Difficulty: Easy

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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