ref=nb_npl)





5891. Find Missing Observations

My Submissions (/contest/weekly-contest-261/problems/find-missing-observations/submissions/)

Back to Contest (/contest/weekly-contest-261/)

You have observations of n + m **6-sided** dice rolls with each face numbered from 1 to 6. n of the observations went missing, and you only have the observations of m rolls. Fortunately, you have also calculated the average value of the n + m rolls.

You are given an integer array rolls of length $\,\mathrm{m}\,$ where rolls[i] is the value of the $\,\mathrm{i}^{\,\mathrm{th}}\,$ observation. You are also given the two integers mean and n.

Return an array of length n containing the missing observations such that the average value of the n + m rolls is exactly mean . If there are multiple valid answers, return any of them. If no such array exists, return an empty

0 User Accepted: **User Tried:** 0 Total Accepted: 0 **Total Submissions:** 0 Medium Difficulty:

The $\boldsymbol{average\ value}$ of a set of $\ k$ numbers is the sum of the numbers divided by $\ k$.

Note that mean is an integer, so the sum of the n + m rolls should be divisible by n + m.

Example 1:

```
Input: rolls = [3,2,4,3], mean = 4, n = 2
Output: [6,6]
Explanation: The mean of all n + m rolls is (3 + 2 + 4 + 3 + 6 + 6) / 6 = 4.
```

Example 2:

```
Input: rolls = [1,5,6], mean = 3, n = 4
Output: [2,3,2,2]
Explanation: The mean of all n + m rolls is (1 + 5 + 6 + 2 + 3 + 2 + 2) / 7 = 3.
```

Example 3:

```
Input: rolls = [1,2,3,4], mean = 6, n = 4
Output: []
Explanation: It is impossible for the mean to be 6 no matter what the 4 missing rolls are.
```

Example 4:

```
Input: rolls = [1], mean = 3, n = 1
Explanation: The mean of all n + m rolls is (1 + 5) / 2 = 3.
```

Constraints:

```
• m == rolls.length
```

- 1 <= n, m <= 10^5
- 1 <= rolls[i], mean <= 6

```
\boldsymbol{\varepsilon}
JavaScript
1 • /**
2
     * @param {number[]} rolls
3
     * @param {number} mean
4
     * @param {number} n
5
     * @return {number[]}
6
    var missingRolls = function(rolls, mean, n) {
7 ▼
8
9
    };
```