

100155. Double Modular Exponentiation

My Submissions (/contest/weekly-contest-375/problems/double-modular-exponentiation/submissions/)

Back to Contest (/contest/weekly-contest-375/)

You are given a **0-indexed** 2D array `variables` where `variables[i] = [ai, bi, ci, mi]`, and an integer `target`.

An index `i` is **good** if the following formula holds:

- `0 <= i < variables.length`
- `((aibi % 10)ci) % mi == target`

Return an array consisting of **good** indices in **any order**.

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

Example 1:

Input: `variables = [[2,3,3,10],[3,3,3,1],[6,1,1,4]]`, `target = 2`
Output: `[0,2]`
Explanation: For each index `i` in the `variables` array:
1) For the index `0`, `variables[0] = [2,3,3,10]`, `(23 % 10)3 % 10 = 2`.
2) For the index `1`, `variables[1] = [3,3,3,1]`, `(33 % 10)3 % 1 = 0`.
3) For the index `2`, `variables[2] = [6,1,1,4]`, `(61 % 10)1 % 4 = 2`.
Therefore we return `[0,2]` as the answer.

Example 2:

Input: `variables = [[39,3,1000,1000]]`, `target = 17`
Output: `[]`
Explanation: For each index `i` in the `variables` array:
1) For the index `0`, `variables[0] = [39,3,1000,1000]`, `(393 % 10)1000 % 1000 = 1`.
Therefore we return `[]` as the answer.

Constraints:

- `1 <= variables.length <= 100`
- `variables[i] == [ai, bi, ci, mi]`
- `1 <= ai, bi, ci, mi <= 103`
- `0 <= target <= 103`

JavaScript

```
1 const ll = BigInt;
2
3 const getGoodIndices = (g, t) => {
4   let res = [];
5   g.map(([a, b, c, m], i) => {
6     a = ll(a), b = ll(b), c = ll(c), m = ll(m);
7     if (((a ** b) % 10n) ** c) % m == t) res.push(i)
8   })
9   return res;
10 };
```

☐ Custom Testcase[Use Example Testcases](#)[Run](#)[Submit](#)**Submission Result: Accepted** (</submissions/detail/1116122341/>) ?[More Details >](/submissions/detail/1116122341/)

Share your acceptance!

Copyright © 2023 LeetCode

[Help Center \(/support\)](/support/) | [Jobs \(/jobs\)](/jobs/) | [Bug Bounty \(/bugbounty\)](/bugbounty/) | [Online Interview \(/interview/\)](/interview/) | [Students \(/student\)](/student/) | [Terms \(/terms\)](/terms/) | [Privacy Policy \(/privacy\)](/privacy/) [United States \(/region\)](/region/)