

时间限制：C/C++/Rust/Pascal 3秒，其他语言6秒  
空间限制：C/C++/Rust/Pascal 256 M，其他语言512 M  
64bit IO Format: %lld

题目描述

Please note the special memory limit of this problem.



This is Tachibana Kanade. She is very cute.

In the quiet afterlife, where forgotten memories echo like distant bells, a vast Tree connects every soul's regret.

Tachibana Kanade, the silent guardian, awakens in the center of this realm. Each node on the Tree holds a number  $a_i$  --- fragments of emotion, unresolved wishes, and fading light.

To awaken her scattered friends, Kanade must walk from node  $l$  to node  $r$ , tracing a simple path. The values along this path are  $w_1, w_2, \dots, w_k$ . She starts with the counter set to  $w_1$ .

At each of the next  $k - 1$  steps, she will:

- Increase the step index by 1,
- Choose to either **add** or **multiply** the counter by the current value  $w_{id}$ .

Her mission: reach exactly 24, the number that symbolizes a complete day --- 24 hours of precious time, 24 echoes of unspoken memories.

Some queries ask whether such a path can yield 24. Others alter the memory fragments themselves.

Can Kanade rewrite fate and reach that quiet resolution once more?Echoes of 24

输入描述:

The first line contains two integers  $n$  and  $q$  ( $1 \leq n, q \leq 5 \times 10^5$ ) --- the number of nodes in the tree and the number of queries.

C++ (clang++18)

1

ACM模  
请通过  
入输出  
出描述

运行结果 自测数据