时间限制：C/C++/Rust/Pascal 5秒，其他语言10秒
空间限制：C/C++/Rust/Pascal 1024 M，其他语言2048 M
64bit IO Format: %lld

题目描述

There is a min-priority queue Q, initially empty. Gellyfish will perform m operations on it. Each belongs to one of the two types:

- **Insertion**: Given l, r. Gellyfish will generate a uniformly random integer x from the range $[l, r]$ and then insert it into Q.
- **Extraction**: Delete the current minimum element in Q. It's guaranteed that Q is not empty.

After all the operations are done, Gellyfish wants you to foretell the expected product of all the remaining elements in Q, taking modulo 998244353.

输入描述:

Each test contains multiple test cases. The first line contains the number of test cases t ($1 \le t \le 200$). The description of the test cases follows.

The first line of each test case contains two integers m and v ($1 \le m \le 500$, $1 \le v \le 500$).

Then m lines follow; the i-th contains one or three integers, denoting an operation. If the operation is an insertion, then there will be three integers $o = 1$, l, r ($1 \le l \le r \le v$), separated by space; if the operation is an extraction, then the input line consists of a single integer $o = 2$.

It is guaranteed that the sum of m over all test cases does not exceed 2000. It's also guaranteed that the priority queue is not empty when performing an extraction operation.

输出描述:

For each test case, output a single line containing an integer: the expected product of all the remaining elements in the priority queue, modulo 998244353.

示例1

输入 复制

```
5
2 1
1 1 1
2
```

C++（clang++18）

1

ACM模
请通过
入输出
出描述

运行结果 自测