ADAlab Online Judge

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Problems

Contests

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■ Randx101109107 ▼

About ∨

queries will be given. There are two classes of queries:

- H i : Move head. Move the specified integer i ($1 \le i \le n$) to the head of the sequence, leaving the order of the rest untouched.
- T i : Move tail. Move the specified integer i ($1 \le i \le n$) to the tail of the sequence, leaving the order of the rest untouched.

Note that, the integers designate the integers themselves to move, not their positions in the sequence.

Find the order of the elements in the sequence after following all the queries successively.

Input

The first line of the input contains an integer t — the number of testcases.

The first line of each testcase contains two integers n and q — the length of the sequence and the number of queries.

Then q lines follow, each line contains one query described above.

Restrictions

For test ID 1 (each 20 points):

- $1 \le t \le 10$
- $1 \le n \le 2000$
- $1 \le q \le 1000$

For test ID 2-5 (each 20 points):

- $1 \le t \le 10$
- $1 \le n \le 200000$
- $1 \le q \le 100000$

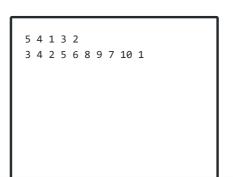
Output

For each testcase, output one line. Each line contains the sequence after processing all the queries of the testcase.

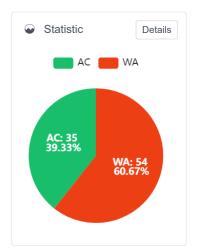
Sample Input 1 🖹

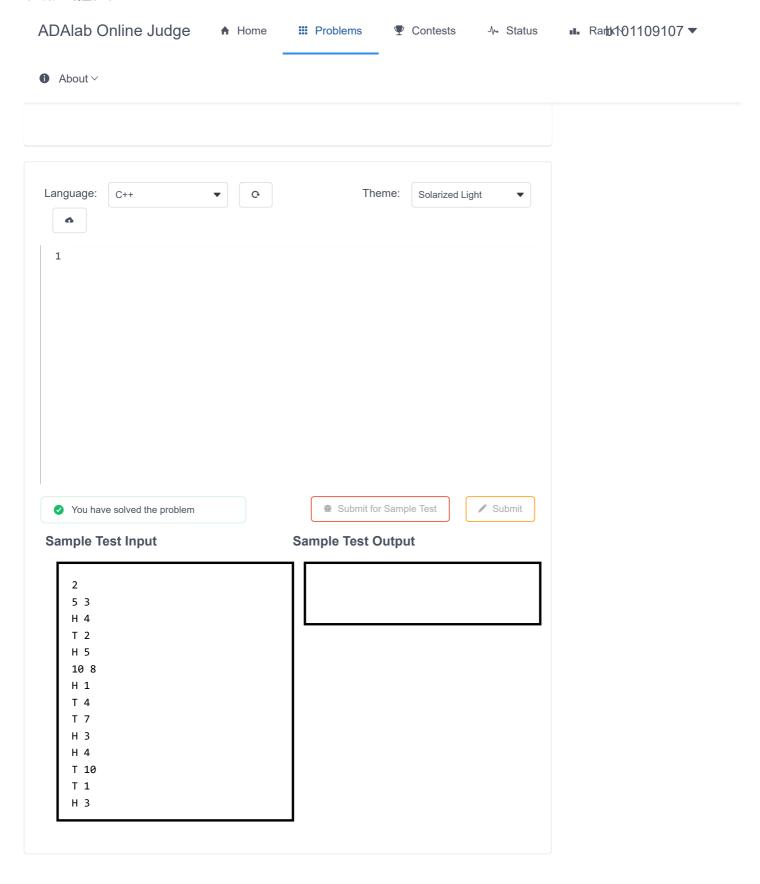


Sample Output 1



ID arrayarrangement Time Limit 1000MS 256MB Memory Limit Standard IO IO Mode Created By ta_david Level Hidden 100 Score Tags Show





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