Min-Max Deque (Easy)

This is the easy version of the problem. Here, there are no updates, i.e. ${\it Q}=0$.

Consider an array A of length N. N is odd.

Alice and Bob will play the following game on it:

- ullet Let B be an initially empty array.
- Alice and Bob take turns playing, with Alice going first.
- On the *i*-th turn, the current player will choose element A_i , and insert it to either the beginning or the end of B. So, Alice will place A_1 , then Bob will place A_2 , then Alice will place A_3 , and so on.
- This continues till all N elements have been placed in B.

Once the game has finished, Alice's *score* is defined to be $min(B_1, B_N)$.

Alice's objective is to maximize her score, while Bob's objective is to minimize Alice's score. Define f(A) to be the final score if both players play optimally, for the starting array A.

You are given an array A of length N, where N is odd.

There are Q point updates to the array. Each update gives you two integers p and X, and you are required to set $A_p=X$. However, in this version of the problem, Q=0.

Report the value of f(A) before any updates are performed, and also after each update. Updates to A are permanent.

Input Format

- ullet The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of multiple lines of input.
 - \circ The first line of each test case contains two space-separated integers N and Q the length of A and the number of updates, respectively.
 - \circ The second line contains N space-separated integers A_1, A_2, \ldots, A_N .
 - The next Q lines describe the updates. Each of them contains two space-separated integers p and X, denoting a point update requiring you to set $A_p := X$.

Output Format

For each test case, output one line containing Q+1 space-separated integers: the first integer should be the value of f(A) before any updates, and the i-th of the next Q integers should be the value of f(A) after the first i updates.

Constraints

- $1 \le T \le 10^4$
- $3 < N < 2 \cdot 10^5 1$
- ullet N is odd.
- Q = 0