# Practice problem - Bomb the base ✔

Statement | Solution

In Chefland, there are $N$ houses numbered from $1$ to $N$, $i^{th}$ house has a defence system having strength $A_i$.
Chef suspects a bomb drop on **one** of the houses very soon.

- A bomb with attack strength $X$ can destroy the $i^{th}$ house, if the defence system of the $i^{th}$ house $A_i$, is **strictly less** than $X$.
- Also, when the $i^{th}$ house is destroyed due to the bomb, all houses with indices $j$ such that $1 \leq j < i$ get destroyed as well irrespective of their defence system.

Given **one** bomb with attack strength $X$, find the **maximum** number of houses that can get destroyed.

## Input Format

- The first line will contain $T$ - the number of test cases. Then the test cases follow.
- First line of each test case contains $2$ integers $N, X$.
- Second line of test case contains $N$ space separated integers $A_1, A_2, \ldots, A_N$.

## Output Format

For each test case, output in a single line the maximum number of houses that can get destroyed if the bomb can hit any house.

## Sample 1:

| Input | Output |
|---|---|
| 2<br>8 6<br>4 1 6 1 6 5 6 8<br>2 1<br>3 5 | 6<br>0 |

## Explanation:

**Test Case** $1$: The bomb can only destroy houses $1, 2, 4$, and $6$.

- If it hits house $1$, only house $1$ is destroyed.
- If it hits house $2$, houses $1$ and $2$ are destroyed.
- If it hits house $4$, houses $1, 2, 3$ and $4$ are destroyed.