## Problem C. Oscar's Round Must Have a Constructive Problem

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 256 mebibytes |

Grammy has a sequence $A$ of length $n$.
Please find a permutation $P$ such that $P_{i} \neq A_{i}$ for all $i$.

## Input

There are multiple test cases.
The first line contains a single integer $T(1 \leq T \leq 100000)$, denoting the number of test cases.
For each test case:
The first line contains a single integer $n(1 \leq n \leq 100000)$.
The second line contains $n$ integers $A_{1}, A_{2}, \ldots, A_{n}\left(1 \leq A_{i} \leq n\right)$.
It is guaranteed that the sum of $n$ does not exceed 500000 .

## Output

For each test case:
If the permutation does not exist, output "NO" on a single line.
Otherwise, output "YES" one the first line, then output $n$ integers one the second line, denoting the permutation $P_{1}, P_{2}, \ldots, P_{n}$.

## Example

| standard input | standard output |
| :---: | :---: |
| 3 | NO |
| 3 | YES |
| 333 | 132 |
| 3 | YES |
| 321 | 451236 |
| 6 |  |
| 114514 |  |

