## Heap Partition

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 3 seconds |
| Memory limit: | 256 megabytes |

A sequence $S=\left\{s_{1}, s_{2}, \ldots, s_{n}\right\}$ is called heapable if there exists a binary tree $T$ with $n$ nodes such that every node is labelled with exactly one element from the sequence $S$, and for every non-root node $s_{i}$ and its parent $s_{j}, s_{j} \leq s_{i}$ and $j<i$ hold. Each element in sequence $S$ can be used to label a node in tree $T$ only once.
Chiaki has a sequence $a_{1}, a_{2}, \ldots, a_{n}$, she would like to decompose it into a minimum number of heapable subsequences.

Note that a subsequence is a sequence that can be derived from another sequence by deleting some elements without changing the order of the remaining elements.

## Input

There are multiple test cases. The first line of input contains an integer $T$, indicating the number of test cases. For each test case:

The first line contain an integer $n\left(1 \leq n \leq 10^{5}\right)$ - the length of the sequence.
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 all $n$ does not exceed $2 \times 10^{6}$.

## Output

For each test case, output an integer $m$ denoting the minimum number of heapable subsequences in the first line. For the next $m$ lines, first output an integer $C_{i}$, indicating the length of the subsequence. Then output $C_{i}$ integers $P_{i 1}, P_{i 2}, \ldots, P_{i C_{i}}$ in increasing order on the same line, where $P_{i j}$ means the index of the $j$-th element of the $i$-th subsequence in the original sequence.

## Example

| standard input | standard output |
| :---: | :---: |
| 4 | 1 |
| 4 | 41234 |
| 1234 | 2 |
| 4 | 3123 |
| 2431 | 14 |
| 4 | 1 |
| 11111 | 41234 |
| 5 | 3 |
| 32141 | 214 |
|  | 12 |
|  | 235 |

