Distinct value

Given n integers a0, a1,..., an-1. Print all distinct elements of the given list in increasing order

Input

- + The first line is the number of testcases T (1 \leq T \leq 10). Each line in the following T lines describes a test case:
- + Each test case starts with a positive integer n and the sequence a0, a1, ..., an-1. Numbers are separated by a space.

Output

The sequence of distinct values. The numbers are sorted in ascending order and separated by a space.

Example

Input: