Question 3

Permute the number according to the given permutation.

Input:

First line of input is the number of the test cases. For each test case there is a line with at least a 3-digit number and a permutation. Permutation is a k-digit number where k is the number of digits of the original number. Each digit represents an index of a digit in the original number. E.g., permuting 6789 with 4312 would result in 9867. In case the same index shows up in the permutation, you need to reuse the same digit. E.g., permuting 6789 with 4411 would result in 9966

Example input:

4
123 321
18124 45132
2430283 7531246
2992 1113

Output:

For each test case you need to output a line with the test index and the result of permutation
1 321
2 24118
3 3232804
4 2222