

finding maximum possible number

Given a number n , Find out what max possible number you can make by deleting exactly k digits.

T : number of test cases $\leq 10^3$.

$1 \leq$ number of digits in $n \leq 10^5$. (n might contain leading zeros.)

$0 \leq k \leq n$

if value of n is equal to k . then just print a new line.

Input

T : number of test cases.

T lines follow each with n and k .

Output

max possible number.

Example

Input:

2

1223 2

8756 2

Output:

23

87

Explanation

Note that left to right order should be maintained. As in the example given answer is 23 not 32.