**PROBLEM:** Given a number less than 1050 and a length *n*, find the sum of all the *n*-digit numbers (starting on the left) that are formed such that, after the first *n-*digit number is formed all others are formed by deleting the leading digit and taking the next *n*-digits.

**EXAMPLE:** Given 1325678905 2, the 2-digit numbers formed are 13, 32, 25, 56, 67, 78, 89, 90, and 05. The sum is 455.

**INPUT:** There will 5 lines of input. Each will contain a positive integer less than 1050 and a positive integer *n*.

**OUTPUT:** For each line of input, print the sum of the *n*-digit numbers formed.

**SAMPLE INPUT**

1325678905 2

54981230845791 5

4837261529387456 3

385018427388713440 4

623387770165388734 11

**SAMPLE OUTPUT**

1. 455
2. 489210
3. 7668
4. 75610
5. 471035012254