N. Unique Transformation

Time Limit: 3 seconds

Problem description

Many fiber optic cable breaks cause many network accesses to become very slow. While waiting for the system to upgrade to WINDOWS 11, Alice came up with a unique transformation, just for killing time: split the positive integer **a** into 2 parts $\mathbf{a_1}$ and $\mathbf{a_2}$, in which $\mathbf{a_1}$ is the ones digit of **a**, $\mathbf{a_2}$ is the number obtained from **a** by deleting the ones digit (if **a** is a one-digit number then $\mathbf{a_2}$ is 0), then replacing **a** with $\mathbf{a_1 \times 100 + a_2}$.

Determine the number obtained after the $\mathbf{k^{th}}$ transformation.

Input: 2 integer numbers in one line: **a** and **k** separated by a space ($1 \leqslant \mathbf{a}, \mathbf{k} \leqslant 2 \times 10^9$).

Output: the number obtained after the $\mathbf{k^{th}}$ transformation.

Example:

INPUT	OUTPUT
561289 3	850