Easy Math

Given an integer k, consider two three-digit numbers X and Y such that:

- the six digits of X and Y are pairwise distinct;
- the hundreds digit of Y is k times the units digit of X.

Find the minimum possible value of the sum $X + Y$.

A three-digit number is an integer from 100 to 999; in particular, its hundreds digit must not be 0.

Input

The only line contains an integer k ($2 \le k \le 9$).

Output

Print the minimum possible value of $X + Y$. It can be shown that such numbers X and Y always exist.

Sample Input 1	Sample Output 1
2	537

Sample Explanation

There are two pairs with the minimum sum 537:

- $X = 102$ and $Y = 435$: the six digits 1, 0, 2, 4, 3 and 5 are pairwise distinct, and the hundreds digit of Y is $4 = 2 \times 2$, two times the units digit of X;
- $X = 132$ and $Y = 405$: the six digits 1, 3, 2, 4, 0 and 5 are pairwise distinct, and the hundreds digit of Y is $4 = 2 \times 2$, two times the units digit of X.

This page is intentionally left blank.