# Project Euler #43: Sub-string divisibility

This problem is a programming version of Problem 43 from projecteuler.net

The number, \$1406357289\$, is a \$0\$ to \$9\$ pandigital number because it is made up of each of the digits \$0\$ to \$9\$ in some order, but it also has a rather interesting sub-string divisibility property.

Let  $d_1$  be the  $1^{st}$  digit,  $d_2$  be the  $2^{nd}$  digit, and so on. In this way, we note the following:

Find the sum of all \$0\$ to \$N\$ pandigital numbers with this property.

### **Input Format**

Input contains an integer \$N\$

# **Output Format**

Print the answer corresponding to the test case.

#### **Constraints**

\$3 \le N \le 9\$

# Sample Input

3

# **Sample Output**

22212