
Enumerate bicolor numbers

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Exactly as in the exercise "Bicolor Numbers", we define a *bicolor* number as a natural number n with only two different digits that are repeated in two blocks (or "colors").

Write a **program** that prints all bicolor numbers with N digits.

Input

The input consists of a natural number N , with $N \geq 2$.

Output

A list of bicolor numbers with N digits, one per line. The numbers can be written **in any order**. You can generate the output as you wish, either using integers or generating the numbers character by character.

Sample input

3

Sample output

100
110
122
112
133
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144
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155
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166
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177
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199
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211
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Problem information

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