

---

## Enumerate bicolor numbers

Z98456\_en

---

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 1

3

#### Sample output 1

100  
110  
122  
112  
133  
113  
144  
114  
155  
115  
166  
116  
177  
117  
188  
118  
199  
119  
200  
220  
211  
221  
233  
223  
244  
224  
255  
225  
266  
226  
277  
227  
288  
228  
299  
229

300	663
330	644
311	664
331	655
322	665
332	677
344	667
334	688
355	668
335	699
366	669
336	700
377	770
337	711
388	771
338	722
399	772
339	733
400	773
440	744
411	774
441	755
422	775
442	766
433	776
443	788
455	778
445	799
466	779
446	800
477	880
447	811
488	881
448	822
499	882
449	833
500	883
550	844
511	884
551	855
522	885
552	866
533	886
553	877
544	887
554	899
566	889
556	900
577	990
557	911
588	991
558	922
599	992
559	933
600	993
660	944
611	994
661	955
622	995
662	966
633	996

977  
997

988  
998

## Problem information

Author: PRO1

Generation: 2026-01-25T23:08:00.506Z

© *Jutge.org*, 2006–2026.  
<https://jutge.org>