Matchsticks are ideal tools to represent numbers. A common way to represent the ten decimal digits with matchsticks is the following:



This is identical to how numbers are displayed on an ordinary alarm clock. With a given number of matchsticks you can generate a wide range of numbers. We are wondering what the smallest and largest numbers are that can be created by using all your matchsticks.

## Input

On the rst line one positive number: the number of testcases, at most 100. After that per testcase:

• One line with an integer  $n \ (2 \le n \le 100)$ : the number of matchsticks you have.

## Output

Per testcase:

• One line with the smallest and largest numbers you can create, separated by a single space. Both numbers should be positive and contain no leading zeroes.

## Sample Input

4

3

6

7 15

## **Sample Output**

7 7

6 111

8 711

108 7111111