

## 4292 Matchsticks

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

- One line with an integer  $n$  ( $2 \leq n \leq 100$ ): 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
```