Problem 1. Seven Hundred Thousand Segments

Time limit: 1 second
Memory limit: 256 megabytes

A 7-segment display element can present any of the ten decimal digits by illuminating a subset of the seven segments, as shown in the following diagram.

So, for example, the digit 1 has two segments illuminated, and the digit 8 has all seven illuminated.

There are n 7-segment display elements in a row, displaying a given n-digit number. Among all n-digit numbers that can be displayed <u>with the same number of illuminated segments</u>, which one is the largest? Write a program to compute this.

Input

The first line contains a single integer T, the number of test cases. This is followed by T lines, each containing a single integer n followed by a space then followed by n decimal digits representing the number currently displayed. The sum total of all the ns in the input is at most 10^5.

Output

For each test case print the answer on a single line.

Example

standard input	standard output
4	5
1 3	977
3 512	997
3 079	7711111111111111111111111111111111
35 11111111111111111111111111111111114	