Problem A. The gambler

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

Kenny Rogers was travelling by train when he met up a gambler who challenged him to play a game. The gambler says a random number N, Kenny choose a number $M > N$ and the gambler needs to predict that number chosen by Keeny.
Kenny choose only `lucky` numbers. A number considered `lucky` if it has no more than 1 non-zero digit. So numbers 100,4000, 10 are `lucky` and 12,15,202,11000 are not lucky.
Kenny needs to know the distance between N and the next `lucky` number to calculate his probability to win.

Input

First line contains T number of test cases. Next T lines contains $N(1 \leq N \leq 10^9)$.

Output

For each test case, output the distance between N and the next `lucky` number.

Example

standard input	standard output
5 10 11000 201 4000 4	10 9000 99 1000 1