Problem B
Number Sequence
Input: standard input
Output: standard output
Time Limit: 1 second

A single positive integer **i** is given. Write a program to find the digit located in the position **i** in the sequence of number groups $S_1S_2...S_k$. Each group S_k consists of a sequence of positive integer numbers ranging from **1** to **k**, written one after another. For example, the first **80** digits of the sequence are as follows:

11212312341234512345612345671234567812345678912345678910123456789101112345678910

Input
The first line of the input file contains a single integer **t (1 <=t <=25)**, the number of test cases, followed by one line for each test case. The line for a test case contains the single integer **i (1 <=i <=2147483647)**

Output
There should be one output line per test case containing the digit located in the position **i**.

Sample Input | Output for Sample Input

Sample Input	Output for Sample Input
2 8 3	2 2

Problem source: Iranian Contest
Special Thanks: Shahriar Manzoor, EPS.