## Project Euler \#40: Champernowne's constant

This problem is a programming version of Problem 40 from projecteuler.net
An irrational decimal fraction is created by concatenating the positive integers:

$$
0.123456789101112131415161718192021 \ldots
$$

It can be seen that the $12^{\text {th }}$ digit of the fractional part is 1.
If $d_{n}$ represents the $n^{t h}$ digit of the fractional part, find the value of the following expression.

$$
d_{i_{1}} \times d_{i_{2}} \times d_{i_{3}} \times d_{i_{4}} \times d_{i_{5}} \times d_{i_{6}} \times d_{i_{7}}
$$

## Input Format

First line contains $T$ that denotes the number of test cases. This is followed by $T$ lines, each containing an 7 integers.
$i_{1} i_{2} i_{3} i_{4} i_{5} i_{6} i_{7}$

## Constraints

$1 \leq T \leq 10^{5}$
$1 \leq i_{1}, i_{2}, i_{3}, i_{4}, i_{5}, i_{6}, i_{7} \leq 10^{18}$

## Output Format

Print the answer corresponding to the test case.
Sample Input
$\square$

## Sample Output

[^0]
[^0]:    5040

