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| **Leftmost Digit**  **Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others) Total Submission(s): 13988    Accepted Submission(s): 5346**  **Problem Description**  Given a positive integer N, you should output the leftmost digit of N^N.    **Input**  The input contains several test cases. The first line of the input is a single integer T which is the number of test cases. T test cases follow. Each test case contains a single positive integer N(1<=N<=1,000,000,000).    **Output**  For each test case, you should output the leftmost digit of N^N.    **Sample Input**  2  3  4    **Sample Output**  2  2  ***Hint***  In the first case, 3 \* 3 \* 3 = 27, so the leftmost digit is 2.  In the second case, 4 \* 4 \* 4 \* 4 = 256, so the leftmost digit is 2.      **Author**  Ignatius.L    **Recommend**  We have carefully selected several similar problems for you:  [1573](http://acm.hdu.edu.cn/showproblem.php?pid=1573) [1065](http://acm.hdu.edu.cn/showproblem.php?pid=1065) [1788](http://acm.hdu.edu.cn/showproblem.php?pid=1788) [3826](http://acm.hdu.edu.cn/showproblem.php?pid=3826) [1568](http://acm.hdu.edu.cn/showproblem.php?pid=1568) |