**A hard puzzle**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 32241    Accepted Submission(s): 11523**

**Problem Description**

lcy gives a hard puzzle to feng5166,lwg,JGShining and Ignatius: gave a and b,how to know the a^b.everybody objects to this BT problem,so lcy makes the problem easier than begin.  
this puzzle describes that: gave a and b,how to know the a^b's the last digit number.But everybody is too lazy to slove this problem,so they remit to you who is wise.

**Input**

There are mutiple test cases. Each test cases consists of two numbers a and b(0<a,b<=2^30)

**Output**

For each test case, you should output the a^b's last digit number.

**Sample Input**

7 66

8 800

**Sample Output**

9

6

**Author**

eddy

**Recommend**

JGShining   |   We have carefully selected several similar problems for you:  [1170](http://acm.hdu.edu.cn/showproblem.php?pid=1170) [1106](http://acm.hdu.edu.cn/showproblem.php?pid=1106) [1159](http://acm.hdu.edu.cn/showproblem.php?pid=1159) [1094](http://acm.hdu.edu.cn/showproblem.php?pid=1094) [1095](http://acm.hdu.edu.cn/showproblem.php?pid=1095)