HOME CONTEST ~ **PROBLEM STATUS** Abreto ~ **LOGOUT UESTC 2016 Summer Training #13 Div.2** 5:00:00 Overview Problem Status Rank Discuss С D E F G H I C - C Time Limit:2000MS Memory Limit:262144KB 64bit IO Format: %164d & %164u Submit Status **Description** standard input/output Your team was exploring an ancient city. Suddenly you found an old scroll with 2 integer numbers N and K, which encrypts the secret code to open a treasure box. Considering a transformation on an integer X described as follows: $X=X+X \mod 100$, the secret code can be obtained by applying the above-described transformation K times successively to N. Input The input file consists of several datasets. The first line of the input file contains the number of datasets which is a positive integer and is not greater than 500. Each dataset has two space-separated positive integers N and $K(1 \le N \le 10^9, 1 \le K \le 10^9)$ written on a single line. Output For each dataset, write on a single line the secret number decrypted from N and K.

Sample Input

Input

2
31102014 2
10101 10

Output

31102056
10324

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