**An Easy Task**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 15455    Accepted Submission(s): 9868**

**Problem Description**

Ignatius was born in a leap year, so he want to know when he could hold his birthday party. Can you tell him?  
  
Given a positive integers Y which indicate the start year, and a positive integer N, your task is to tell the Nth leap year from year Y.  
  
Note: if year Y is a leap year, then the 1st leap year is year Y.

**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 two positive integers Y and N(1<=N<=10000).

**Output**

For each test case, you should output the Nth leap year from year Y.

**Sample Input**

3

2005 25

1855 12

2004 10000

**Sample Output**

2108

1904

43236

***Hint***

We call year Y a leap year only if (Y%4==0 && Y%100!=0) or Y%400==0.

**Author**

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**Recommend**

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) [1161](http://acm.hdu.edu.cn/showproblem.php?pid=1161) [1215](http://acm.hdu.edu.cn/showproblem.php?pid=1215) [1219](http://acm.hdu.edu.cn/showproblem.php?pid=1219)