# HARBOUR SPACE UNIVERSITY



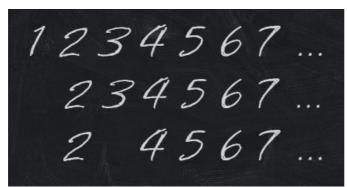
HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

A. Remove a Progression

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You have a list of numbers from 1 to n written from left to right on the blackboard.

You perform an algorithm consisting of several steps (steps are 1-indexed). On the i-th step you wipe the i-th number (considering only **remaining** numbers). You wipe the whole number (not one digit).



When there are less than i numbers remaining, you stop your algorithm.

Now you wonder: what is the value of the x-th remaining number after the algorithm is stopped?

### Input

The first line contains one integer T ( $1 \leq T \leq 100$ ) — the number of queries. The next Tlines contain queries — one per line. All queries are independent.

Each line contains two space-separated integers n and x ( $1 \le x < n \le 10^9$ ) — the length of the list and the position we wonder about. It's guaranteed that after the algorithm ends, the list will still contain at least x numbers.

## Output

Print T integers (one per query) — the values of the x-th number after performing the algorithm for the corresponding queries.

### Example



# **Educational Codeforces Round 68** (Rated for Div. 2)

#### **Finished**

Practice



### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

# → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



→ Last submissions		
Submission	Time	Verdict
<u>57129801</u>	Jul/16/2019 09:38	Accepted





2019/7/17 Problem - A - Codeforces

Announcement #2 (ru)Tutorial (en)

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Desktop version, switch to mobile version.

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