A. Sublime Sequence

time limit per test: 1 second
memory limit per test: 256 megabytes

Farmer John has an integer x. He creates a sequence of length n by alternating integers x and $-x$, starting with x.

For example, if $n = 5$, the sequence looks like: $x, -x, x, -x, x$.

He asks you to find the sum of all integers in the sequence.

Input

The first line contains an integer t ($1 \le t \le 100$) — the number of test cases.

The only line of input for each test case is two integers x and n ($1 \le x, n \le 10$).

Output

For each test case, output the sum of all integers in the sequence.

Example

input Copy

```
4
1 4
2 5
3 6
4 7
```

output Copy

```
0
2
0
4
```

Codeforces Round 1050 (Div. 4)
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 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++17 7.3.0

Choose file: Escolher Arquivo Nenhu...colhido

Submit

→ Last submissions

Submission	Time	Verdict
338410206	Sep/13/2025 17:56	Accepted

→ Problem tags

brute force hashing math *800

No tag edit access

→ Contest materials

- Announcement (en)
- Tutorial (en)

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