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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 ($1 \leq t \leq 100$) — the number of test cases.

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

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.

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You can clone this contest to a mashup.

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Language: [GNU G++23 14.2 \(64 bit, ms\)](#)Choose file: [Escolher arquivo](#) Nenhum...colhido[Submit](#)

→ Last submissions



Submission	Time	Verdict
338401877	Sep/13/2025 17:50	Accepted

→ Problem tags

[brute force](#) [hashing](#) [math](#) [*800](#)

No tag edit access

→ Contest materials

- Announcement (en) 
- Tutorial (en) 



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