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## Even Pair Sum

Problem Code: **EVENPSUM**

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You are given two positive integers  $A$  and  $B$ . Find the number of pairs of positive integers  $(X, Y)$  such that  $1 \leq X \leq A$ ,  $1 \leq Y \leq B$  and  $X + Y$  is even.

### Input

- The first line of the input contains a single integer  $T$  denoting the number of test cases. The description of  $T$  test cases follows.
- The first and only line of each test case contains two space-separated integers  $A$  and  $B$ .

### Output

For each test case, print a single line containing one integer — the number of valid pairs.

### Constraints

- $1 \leq T \leq 1,000$
- $1 \leq A, B \leq 10^9$

### Subtasks

**Subtask #1 (10 points):**  $A, B \leq 10$

**Subtask #2 (10 points):**  $A, B \leq 1,000$

**Subtask #3 (80 points):** original constraints

### Example Input

```
4
1 1
2 3
4 6
8 9
```

### Example Output

```
1
3
12
36
```

Author: [ildar\\_adm](#)

Date Added: 2-12-2020

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY, PYP3, TEXT, CPP17, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, kotlin, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, R, CAML, rust, ASM, FORT, FS, LISP clisp, SQL, swift, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, COB, SCM chicken, SCM qobi, ST, NEM, SQLQ

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