

Playground

Input File: playground.txt

Your local elementary school wants to build a new playground. However, they have a limited amount of money, and can only afford a certain amount of fencing needed to surround the playground. Given the price for each foot of fencing and the school's budget, calculate the maximum area of the playground. Note that the playground must be in the shape of a rectangle (four sides, with 90° angles), meaning no circular or triangular playgrounds.

Input:

The first line contains an integer N . The following N lines each contain two positive integers, the first representing the price per feet for fencing and the second representing the school budget.

Output:

Output the maximum area of the playground that can be surrounded by fencing. Your answer should be in square feet and rounded to the nearest integer.

Example Input:

```
3
5 1000
8 100
6 600
```

Example Output:

```
2500
10
625
```