Mr. Dorsey Dawson recently stole $X$ grams of gold from ACME Jewellers. He is now on a train back home. To avoid getting caught by the police, he has to convert all the gold he has into paper money. He turns into a salesman and starts selling the gold in the train.

There are $N$ passengers who have shown interest in buying the gold. The $i^{t h}$ passenger agrees to buy $a_{i}$ grams of gold by paying $v_{i}$ dollars. Dawson wants to escape from the police and also maximize the profit. Can you help him maximize the profit?

Note: The $i^{\text {th }}$ passenger would buy exactly $a_{i}$ grams if the transaction is successful.

## Input Format

The first line contains two space separated integers, $N$ and $X$, where $N$ is the number of passengers who agreed to buy and $X$ is the stolen amount of gold (in grams).
$N$ lines follow. Each line contains two space separated integers $-v_{i}$ and $a_{i}$, where $v_{i}$ is the the value which the $i^{t h}$ passenger has agreed to pay in exchange for $a_{i}$ grams of gold.

## Constraints

- $1 \leq X \leq 5000$
- $1 \leq N \leq 10^{6}$
- all $v_{i}$ 's and $a_{i}$ 's are less than or equal to $10^{6}$ and greater than 0 .


## Output Format

If it's possible for Dorsey to escape, print the maximum profit he can enjoy, otherwise print Got caught!.

## Sample Input 0

```
410
460 4
5906
5505
5905
```


## Sample Output 0

## 1140

## Explanation 0

Selling it to passengers buying 4 grams and 6 grams would lead to 1050 dollars whereas selling it to passengers buying 5 grams gold would lead to 1140 dollars. Hence the answer.

## Sample Input 1

## Sample Output 1

Got caught!

## Explanation 1

There is no way to sell all 9 grams of gold.

