Problem H. Cups and Beans

Input file:	*standard input*
Output file:	*standard output*
Time limit:	1 second
Memory limit:	256 mebibytes

There are N cups numbered 0 through $N-1$. For each $i (1 \leq i \leq N-1)$, the cup i contains A_i beans, and this cup is labeled with an integer C_i.

Two people will play the following game:

- In each turn, the player chooses a bean from one of the cups except for the cup 0.
- If he chooses a bean from the cup i, he must move it to one of the cups $i - C_i, \ldots, i-1$.
- The players take turns alternately. If a player can't choose a bean, he loses.

Who will win if both players play optimally?

Input

Input Format:

N
C_1 A_1
C_2 A_2
$\vdots$
C_{N-1} A_{N-1}

Constraints:

- $2 \leq N \leq 10^5$
- $1 \leq C_i \leq i$
- $0 \leq A_i \leq 10^9$
- At least one of A_i is nonzero.
- All values in the input are integers.

Output

Print the name of the winner: "`First`" or "`Second`".

Examples

standard input	standard output
3 1 0 1 1	Second
7 1 1 2 0 1 0 2 0 4 1 3 0	First
7 1 1 2 0 1 9 2 10 4 3 3 5	Second

Note

Notes to the Sample 1:

- In the first turn, the first player must move a bean from 2 to 1.
- In the second turn, the second player must move a bean from 1 to 0.
- In the third turn, the first player can't choose a bean and loses.