

Problem O. Magic 3

Time limit 2000 ms

Mem limit 1048576 kB

Problem Statement

Takahashi, the magician, is fighting with a monster.

He can use N spells.

The i -th spell takes X_i seconds to cast and has a power Y_i .

However, the monster is strong enough to avoid taking damage from spells taking S or more seconds to cast and spells with powers D or less.

Also, there is nothing other than spells that can do damage to the monster.

Can Takahashi do damage to the monster?

Constraints

- All values in input are integers.
- $1 \leq N \leq 100$
- $1 \leq X_i \leq 10^9$
- $1 \leq Y_i \leq 10^9$
- $1 \leq S \leq 10^9$
- $1 \leq D \leq 10^9$

Input

Input is given from Standard Input in the following format:

```
 $N$   $S$   $D$   
 $X_1$   $Y_1$   
 $\vdots$   
 $X_N$   $Y_N$ 
```

Output

If Takahashi can do damage to the monster, print **Yes** ; otherwise, print **No** .

Sample 1

Input	Output
4 9 9 5 5 15 5 5 15 15 15	Yes

The second and fourth spells take too much time to do damage.

Also, the first and second spells do not have enough powers to do damage.

Thus, only the third spell can do damage.

Sample 2

Input	Output
3 691 273 691 997 593 273 691 273	No

Sample 3

Input	Output
7 100 100 10 11 12 67 192 79 154 197 142 158 20 25 17 108	Yes

Only the seventh spell can do damage.