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Sunscreen			
<div style="display: flex; justify-content: space-between;"> Time Limit: 1000MS Memory Limit: 65536K </div> <div style="display: flex; justify-content: space-between;"> Total Submissions: 9437 Accepted: 3302 </div>			
Language: <input type="text" value="Default"/>			

Description

To avoid unsightly burns while tanning, each of the C ($1 \leq C \leq 2500$) cows must cover her hide with sunscreen when they're at the beach. Cow i has a minimum and maximum SPF rating ($1 \leq minSPF_i \leq 1,000$; $minSPF_i \leq maxSPF_i \leq 1,000$) that will work. If the SPF rating is too low, the cow suffers sunburn; if the SPF rating is too high, the cow doesn't tan at all.....

The cows have a picnic basket with L ($1 \leq L \leq 2500$) bottles of sunscreen lotion, each bottle i with an SPF rating SPF_i ($1 \leq SPF_i \leq 1,000$). Lotion bottle i can cover $cover_i$ cows with lotion. A cow may lotion from only one bottle.

What is the maximum number of cows that can protect themselves while tanning given the available lotions?

Input

- * Line 1: Two space-separated integers: C and L
- * Lines 2.. $C+1$: Line i describes cow i 's lotion requires with two integers: $minSPF_i$ and $maxSPF_i$
- * Lines $C+2$.. $C+L+1$: Line $i+C+1$ describes a sunscreen lotion bottle i with space-separated integers: SPF_i and $cover_i$

Output

A single line with an integer that is the maximum number of cows that can be protected while tanning

Sample Input

```
3 2
3 10
2 5
1 5
6 2
4 1
```

Sample Output

```
2
```

Source

USACO 2007 November Gold

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