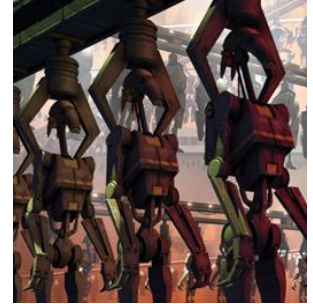


# Task 09: **Droid Repair**

**[250 points]**

Stuck on Tatooine, Luke is fixing droids for Uncle Owen and Aunt Beru.



## **Problem Statement**

Luke can only fix one droid at a time and each droid takes a certain number of days to repair.

Additionally, for each day of delay before starting to work on a droid, Luke has to pay a daily fine specific to that droid. Help Luke determine the minimum total fine he has to pay.

## **Input Format**

$N$ , the number of droids, followed by  $N$  lines containing  $T$ , the time it takes to fix a droid and  $S$ , the fine charged each day if the droid has not started being repaired.

## **Input Constraints**

- $0 < N < 1,000$
- $0 < T < 10,000$
- $0 < S < 10,000$

## **Output Format**

The minimum total fine Luke can pay.

## **Sample Input**

```
4
3 4
1 1000
2 2
5 5
```

## **Sample Input**

```
47
```