# Another Contest 1 Problem 3 - Poutine

**Time limit:** 0.5s **Memory limit:** 256M

Fast Fingers Thomas is eating poutine at Wilson's restaurant. Thomas has T dollars, and an order of poutine at Wilson's restaurant costs one dollar. Consequently, Thomas can place at most T orders of poutine.

There are N different types of poutine that Thomas can order. If Thomas orders poutine i for the first time, he gains  $a_i$  units of happiness. If Thomas orders poutine i for the kth time, he gains  $\max(0, a_i - (k-1)b_i)$  units of happiness. Wilson will never run out of any type of poutine.

Compute the maximum amount of happiness Thomas can feel after eating some amount of poutine.

#### **Constraints**

 $1 \le N \le 10^5$ 

 $1 \le a_i, b_i, T \le 10^{18}$ 

### **Input Specification**

The first line of input contains two positive integers, N and T.

Each of the next N lines contains two space-separated integers,  $a_i$  and  $b_i$  for poutine i.

# **Output Specification**

Let g be the maximum attainable units of happiness that Thomas can feel. Output g modulo  $998\,244\,353$ .

## Sample Input

2 3

8 2

7 2

### **Sample Output**

21