# Help the soldier

Igor, a famous Russian soldier, must go to war in Afghanistan (we are in late 80's). His superiors allowed him to buy himself his equipment. So, he must buy 6 items: helmet, bulletproof vest, trousers, boots, tunic and a firearm. This items are represented with numbers from 1 to 6. There are N (6 < N < 101) items of these 6 types. Each item is characterized by its price p[i] (in rublas) and is quality q[i]. Igor has T (0 < T < 1001) rublas and he wants to maximize the total quality of his equipment. The total quality is the quality of the item with the lowest quality. Help him.

## Input

On the first line there are two integers N and T. On the lines 2 ... N+1 there are 3 integers, type[i] (from 1 to 6) p[i] and q[i]. (0 < p[i], q[i] < T)

## **Output**

Output the total quality.

## **Example**

#### Input:

7 53

582

2 4 8

6 8 13 1 13 12

4 5 4

4 5 1

327

3 13 5

#### **Output:**

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### **Note**

If there is no answer, output 0.

There can be less than 6 types of items.

## [ Edited by EB ]

**Warning:** Some input files are incomplete and broken.