## Jutge.org

The Virtual Learning Environment for Computer Programming

Paint Rooms X63503\_en

Leonardo was walking in Rome, where a lot of emblematic buildings were not maintained at all, so he decided to start a new business for tourism promotion, earning as much money as possible within a limited time window.

How many rooms can Leonardo paint in a workday? Luca Pacioli, a good old friend of Leonardo, helped him to extract the formula of the required time, where Luca said: "You are a really fast painter, so you just need 1 minute per square meter".

Given the time Leonardo has to paint the rooms, the width and height of a wall and taking into account each room has 4 similar walls and the roof, and the money Leonardo can earn for each room, print the maximum amount of money Leonardo can earn.

## Input

The input consists of several test cases. Each test case consists of a total time T where  $50 \le T \le 1000$ , the number of rooms R such that  $1 \le R \le 1000$ , and the next R lines have the width  $w_i$  and height  $h_i$  of a wall of the room  $r_i$ , and the money  $m_i$  Leonardo earns painting the i-th room.

## Output

For each test case, return the maximum amount of money Leonardo can earn painting rooms.

Sample input	Sample output
80 3	33
2 5 17	31
1 2 15	33
3 2 16	
96 4	
4 1 10	
4 1 10	
4 1 10	
4 5 31	
96 4	
4 1 11	
4 1 11	
4 1 11	
4 5 31	

## **Problem information**

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