Max value after m range operation

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Given an array of size **N** with all initial values as 0, write a program to perform following **M** range increment operations as shown below:

```
increment(a, b, k) : Increment values from 'a'
                       to 'b' by 'k'.


After M operations, calculate the maximum value

in the array.
```

Input:
First line of input contains a single integer T which denotes the number of test cases. T test cases follows. First line of each test case contains two space separated integers N and M. Next M lines of each test case contains three space separated integers a , b and k.

Output:
For each test case print the maximum element in the array after M increment operations.

Constraints:
$1<=T<=100$
$1<=N<=10^5$
$1<=M<=1000$
$0<= a,b <= N-1$

Example:
Input:
2
5 3
0 1 100
1 4 100
2 3 100

4 3
1 2 603
0 0 286
3 3 882
Output:
200
882