

Problem

###Read problems statements in [Hindi](#), [Mandarin Chinese](#), [Russian](#), [Vietnamese](#) and [Bengali](#) as well.

Chef decided to buy a new tablet. His budget is B , so he cannot buy a tablet whose price is greater than B . Other than that, he only has one criterion — the area of the tablet's screen should be as large as possible. Of course, the screen of a tablet is always a rectangle.

Chef has visited some tablet shops and listed all of his options. In total, there are N available tablets, numbered 1 through N . For each valid i , the i -th tablet has width W_i , height H_i and price P_i .

Help Chef choose a tablet which he should buy and find the area of such a tablet's screen, or determine that he cannot buy any tablet.

Input

- The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.
- The first line of each test case contains two space-separated integers N and B .
- N lines follow. For each i ($1 \leq i \leq N$), the i -th of these lines contains three space-separated integers W_i , H_i and P_i .

Output

For each test case, print a single line. If Chef cannot buy any tablet, it should contain the string "no tablet" (without quotes). Otherwise, it should contain a single integer — the maximum area of the screen of a tablet Chef can buy.

Constraints

- $1 \leq T \leq 100$
- $1 \leq N \leq 100$
- $1 \leq B \leq 1,000,000$
- $1 \leq P_i \leq 1,000,000$ for each valid i
- $1 \leq W_i, H_i \leq 10,000$ for each valid i

Statement	Hints	Submissions	Solution	Ask a Doubt
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Sample 1:

Input	Output
3	12
3 6	no tablet
3 4 4	25
5 5 7	
5 2 5	
2 6	
3 6 8	
5 4 9	
1 10	
5 5 10	

Explanation:

- Example case 1:** The first tablet (with screen area $3 \cdot 4 = 12$) is the best option for Chef, since Chef cannot afford the second one and the third one has a smaller screen.
- Example case 2:** Chef's budget is 6, but all tablets have higher prices, so Chef cannot buy any tablet.
- Example case 3:** The price of the only tablet is exactly equal to Chef's budget, so he is able to buy it.