|  |  |  |
| --- | --- | --- |
| **H** | **Not Argentina’s match** | **Time Limit:**  **1 sec** |

There are **N** **(1 <= N <= 100)** spectators to watch a match between South Korea and Japan. Each spectator has an excitement level **E\_i (1 <= E\_i <= 100, 1 <= i <= n)** and a ticket worth of price **P\_i (1 <= P\_i <= 100, 1 <= i <= n)**. Now the stadium authority wants to allow spectators to enter the stadium but they don’t want too many excitement in the stadium as there has been an ugly incident last match when some over excited spectators started beating opponent team’s supporters. So now the authority is thinking of a way to allow spectators in such way that the ticket selling amount is maximum but the total excitement level is not over a number **W** **(1 <= W <= 1000)**.

Given **N**, **W** and **N** spectators’ excitement **E** and ticket price **P**, write a program to find out the maximum ticket selling profit stadium authority can get without exceeding **W,** as total excitement level.

**Input**

First line of input is **T** **(1 <= T <= 100)**. Each of the next **T** lines will contain two integers **N**, **W** and each of the following **N** lines will contain two integers **E\_i** and **P\_i** where **i** is for the **i-th** spectator.

**Output**

For each case, output the maximum profit authority can get.

**Sample I/O**

|  |  |
| --- | --- |
| Input | Output |
| 1  3 10  6 6  5 5  4 4 | 10 |