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| **Charm Bracelet**   |  |  |  | | --- | --- | --- | | **Time Limit:** 1000MS |  | **Memory Limit:** 65536K | |  |  |  |   **Description**  Bessie has gone to the mall's jewelry store and spies a charm bracelet. Of course, she'd like to fill it with the best charms possible from the *N* (1 ≤ *N* ≤ 3,402) available charms. Each charm *i* in the supplied list has a weight *Wi* (1 ≤ *Wi* ≤ 400), a 'desirability' factor *Di* (1 ≤ *Di* ≤ 100), and can be used at most once. Bessie can only support a charm bracelet whose weight is no more than *M*(1 ≤ *M* ≤ 12,880).  Given that weight limit as a constraint and a list of the charms with their weights and desirability rating, deduce the maximum possible sum of ratings.  **Input**  \* Line 1: Two space-separated integers: *N* and *M* \* Lines 2..*N*+1: Line *i*+1 describes charm *i* with two space-separated integers: *Wi* and *Di*  **Output**  \* Line 1: A single integer that is the greatest sum of charm desirabilities that can be achieved given the weight constraints  **Sample Input**  4 6  1 4  2 6  3 12  2 7  **Sample Output**  23  **Source**  [USACO 2007 December Silver](http://poj.org/searchproblem?field=source&key=USACO+2007+December+Silver) |