You have broken into a shop. In the shop are \( n \) valuable items. For each, you know its weight \( w_i \) and its value \( v_i \). Unfortunately, you can carry only a maximum total weight of \( W \). Which subset of the items should you take, such that the sum of \( w_i \) is at most \( W \) and the sum of \( v_i \) is maximised?

• Thievery •

Output
For each test case, output one line with a single integer: the maximum value you can carry out of the shop.

```c++
vector<vector<int>> table(n, vector<int>(max_w + 1));
```