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## Meal deals

P51461\_en

Vintè Concurs de Programació de la UPC - Final (2022-09-21)

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Edgar has become fond of the “meal deals” of England. For 3.5 pounds he can eat one first, one second, one third, ..., and one  $n$ -th dish. Edgar wants to eat as many calories as possible, and he knows, for every dish of the deal, its type (between 1 and  $n$ ) and its number of calories. Take into account that he can eat (at most) one dish of each type.

### Input

Input consists of several cases, with only natural numbers. Every case begins with the number of types of dishes  $n$  and the number of different dishes  $d$ , followed by  $d$  pairs  $t_i c_i$  with the type and the number of calories of each dish. There is at least one dish for each type. Assume  $1 \leq n \leq 10^4$ ,  $n \leq d \leq 10^5$ ,  $1 \leq t_i \leq n$ , and  $1 \leq c_i \leq 10^5$ .

### Output

For each meal deal, print the maximum number of calories that Edgar can eat.

#### Sample input

```
3 5
1 10 2 50 3 30 1 40 2 20
1 1
1 42
2 4
1 100000 1 100000 2 100000 1 100000
```

#### Sample output

```
120
42
200000
```

### Problem information

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