Late Night Parties

Anish and Anil lives in Goa. They're huge fans of parties and often makes use of their chance to attend all the late night parties happening there.

Unfortunately parties in Goa are very expensive and these two guys have limited budget in hand. Parties are the only places where they meet and to attend a party, they have to purchase the tickets beforehand.

They go to an event website and purchase tickets for all the upcoming parties such that it doesn't exceed their budget. Each party has an excitement level associated with it.

Your task is to help them get maximum possible excitement with their existing budget.

Note : They need not spend the whole amount they have in hand

Input Format

First line of the input contains the number of test cases T.

For the next T test cases

First line of each test case contains B, the budget and N the number of late night parties.

Next N lines contains C_i, E_i wherer E_i is the excitement level Anish and Anil can get form a party and C_i is the ticket fee of it.
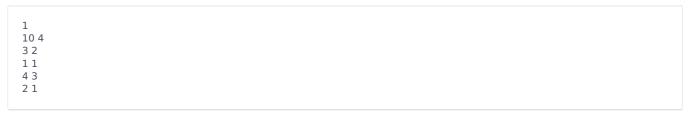
Constraints

- 1 <= Number of Test Cases <= 10
- 1 <= B <= 500
- 1 <= N <= 100
- 1 <= C_i, E_i <= 100

Output Format

Output the Amount spent by them and the maximum excitement level they attained.

Sample Input 0

```
1
10 4
3 2
1 1
4 3
2 1
```

Sample Output 0

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10 7
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Explanation 0

Anish and Anil had Rs.10 in hand. They attended all the parties since their sum was 10. The total cost of attending all parties were 3+1+4+2 = 10 and the total excitement they had was 2+1+3+1=7