

## 7734 Relic Discovery

Recently, paleoanthropologists have found historical remains on an island in the Atlantic Ocean. The most inspiring thing is that they excavated in a magnificent cave and found that it was a huge tomb. Inside the construction, researchers identified a large number of skeletons, and funeral objects including stone axe, livestock bones and murals. Now, all items have been sorted, and they can be divided into  $N$  types. After they were checked attentively, you are told that there are  $A_i$  items of the  $i$ -th type. Further more, each item of the  $i$ -th type requires  $B_i$  million dollars for transportation, analysis, and preservation averagely. As your job, you need to calculate the total expenditure.

### Input

The first line of input contains an integer  $T$  which is the number of test cases.

For each test case, the first line contains an integer  $N$  which is the number of types. In the next  $N$  lines, the  $i$ -th line contains two numbers  $A_i$  and  $B_i$  as described above. All numbers are positive integers and less than 101.

### Output

For each case, output one integer, the total expenditure in million dollars, on a line by itself.

### Sample Input

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

### Sample Output

```
14
```