

Earned Credits

Khanh is asking for your help in calculating his total credit. He gives you the list of courses and numbers of credits of each course and the list of grades for each course.

Only courses with grades larger than or equal to 50 are counted. Khanh needs to know the how many credits he gained.

Input

- The first line contains one integer N - the number of courses to be calculated.
- The N next lines each contains a string S and an integer c where S is the ID of the course and c is the number of credits of that course.
- The last N lines each contains an integer G and a string S where G is the grade of the course that has ID of S.

Output

Print out only one line contains the total number of credits that Khanh gained.

Sample

Input	Output
5	10
CSE101 4	
CSE102 4	
CSE103 1	
CSE104 3	
CSE105 2	
70 CSE101	
80 CSE102	
60 CSE105	
40 CSE104	
10 CSE103	