For the entrance examination of Tap University, which emphasizes comprehensive ability, applicants will be selected in two stages based on the results of the first examination (5 subjects: English, mathematics, science, Japanese, and Geography/History, each with a maximum score of 100 points). The conditions for passing the two-stage selection are as follows.

A total score of 350 points or more in all subjects
Science applicants must have a total score of 160 or higher in two science subjects (mathematics and science)
Humanities applicants must have a total score of 160 or higher in two humanities subjects (Japanese, Geography/History)

Since the score of each subject of each examinee is entered, please find how many people can pass the two-stage selection.

This explanation corresponds to example input 1 in the test.

| | Division | English | Math | Science | Japanese | Geography/History | Science 2 Subject | Humanities 2 Subject | All Subject | Result |
|---|---|---|---|---|---|---|---|---|---|---|
| Examinee 1 | Science | 70 | 78 | 82 | 57 | 74 | 160 | – | 361 | pass |
| Examinee 2 | Humanities | 68 | 81 | 81 | 60 | 78 | – | 138 | 368 | fail |
| Examinee 3 | Science | 63 | 76 | 55 | 80 | 75 | 131 | – | 349 | fail |
| Examinee 4 | Science | 90 | 100 | 96 | 10 | 10 | 196 | – | 306 | fail |
| Examinee 5 | Humanities | 88 | 78 | 81 | 97 | 93 | – | 190 | 437 | pass |

Examinee 2 has a total of 350 points or more in all subjects, but the total of two humanities subjects is less than 160 points, so the examinee failed. On the other hand, for examinee 4, has a total of 160 points or more in two science subjects, but their overall total is less than 350 points so they fail the admission test.

→ Number of Passers: 2

## Value to be entered

Input is given in the following format:

N

t_1 e_1 m_1 s_1 j_1 g_1

t_2 e_2 m_2 s_2 j_2 g_2

...

t_N e_N m_N s_N j_N g_N

 ・ In the first line, an integer N representing the number of examinees is given.

 ・ Of the following N lines, the i-th line (1 ≤ i ≤ N) contains a letter t_i representing the examinee's classification of humanities and sciences, and integers e_i, m_i, s_i representing scores in English, mathematics, science, Japanese, geography and history. , j_i, g_i are given in this order separated by single-byte spaces.

 ・ About t_i, humanities are represented by "l" (lowercase "L"), and science is represented by "s".

 ・ The input will be N + 1 lines in total, and one newline will be inserted at the end of the last line of the input value.

Each value is passed as a string from standard input. Please check here for how to get the value from the standard input

expected output

Please print in one line as an integer how many people can pass the two-step selection of the paiza university entrance examination.

End with a line break and do not include extra characters or blank lines.

## Conditions

All test cases satisfy the following conditions.

 ・ 1 ≤ N ≤ 1,000

 ・ For each i (1 ≤ i ≤ N)

 ・ t_i is either "l" or "s" in lowercase letters

 ・ 0 ≤ e_i, m_i, s_i, j_i, g_i ≤ 100

## Input example 1

5

s 70 78 82 57 74

l 68 81 81 60 78

s 63 76 55 80 75

s 90 100 96 10 10

l 88 78 81 97 93

## Output example 1

2


## Input example 2

20

l 100 67 39 85 87

s 38 75 75 45 90

l 43 95 7 35 49

l 82 77 74 35 44

s 96 80 92 58 84

l 23 60 44 27 3

l 42 24 52 23 63

s 44 78 98 51 10

l 93 38 73 88 12

l 34 29 43 48 61

l 83 33 97 3 59

l 24 84 22 35 33

s 81 42 80 34 87

l 8 87 82 80 100

l 48 75 75 3 50

l 93 76 25 71 31

s 60 92 64 66 11

l 61 47 6 21 83

l 68 1 47 81 78

l 8 72 54 20 25

## Output example 2

**3**

# Additional Information

When creating this test please keep in mind the following things,
The subject the examinee's are tested on can increase and degree,
The way pass fail results are calculated can be changed.
Additional testing categories can be added.

Please use a programming language you feel most comfortable completing this test.
Any type of GUI is acceptable.