

Tyrion

During his time as hand of King Joffrey, Tyrion Lannister met Varys, the Master of Whisperers, in the gardens of the palace. ‘Tyrion’, Varys said, ‘I have made a list of all the houses, major and minor, and sorted them according to whispers and rumors, into who is friend and foe of House Lannister. Would you like to know those you are truly on your side?’ Tyrion shrugged, ‘of course’, he says, ‘but I think I have a fairly well idea myself. ‘And he named a few of which he was very certain. ‘Ha!’, Varys said, ‘not bad, but not true either. I reveal this to you: The number of houses that you named and that are true friends of house lannister, this number, it is odd.’ Tyrion was not amused, but then made up his mind, naming a different set of houses. Again, Varys would not tell him which were right, but only that the number of friends in the list was this time even. And so they continued for quite some time, until Varys remarked: ‘But now, my dear friend, you must have gotten it. You should now my true list of true friends.’ Tyrion nodded, and while the listening bystanders were utterly confused, the two men parted ways knowing that they were in absolute agreement about the secret list.

Input: Concise notes of the conversation. It begins with the number of houses in consideration, a number n , in the first line. Then n lines follow. Each is of the following form: First, houses are named, separated by spaces. Then the last word in the line is either ‘even’ or ‘odd’. You may assume that the n lines are enough to tell Tyrion the friendship information for all houses.

Output: Output the number of friends of house Lannister.

Sample Input:

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4
Baratheon Lannet Stark Targaryan odd
Baratheon Lannet Targaryan odd
Baratheon Stark Targaryan even
Stark Targaryan even
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Sample Output:

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1
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