Primary School

You are a teacher at a primary school. This Friday, teaching is suspended in favor of a big summer party. Of course the pupils have to attend the party, and all are asked to write their name on a list.

You are pretty sure that the current list is not correct because you have seen children at the party that you do not see on the list, but you have also seen children write down their name multiple times. On top of that, the children do not yet excel at writing and often write the letters of their name in the wrong order.

Now before making an announcement asking parents to check if their children are on the list, you want to determine how many children actually wrote their name down.

Input: The first line contains the number n of entries on the list. The following line contains n strings with letters in the alphabet $\{a, \ldots, z\}$. You may assume that the children always write the correct set of letters for their name (just possibly in the wrong order), that the names of the children are unique, and even more: The multiset of letters in each child's name is unique, i.e., if we pick two names and write them in the wrong order, the two resulting names will always still be different. (For example, Enna and Anne will not both be at this school.)

Output: Output the number of children that have written their name on the list at least once.

Sample Input:
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4
carsten einalem crasten andreas
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Sample Output:
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3
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