Problem 2. Words

 Write a program **words** that scans a sequence of words and computes the number of different words in the sequence.

 **Input**: The first line of the input file **words.in** contains a single integer M - the total number of words in the sequence. The following M lines contain one word. All words consist of lowercase latin letters and are not longer than 20 symbols.

 **Output**: The output file **words.out** should contain a single integer - the number of different words in the sequence.

 **Constraints:**:

 1$\leq $ M$\leq $1000

**Example:**

|  |  |
| --- | --- |
| **gossips.in** | **gossips.out** |
| 5alabala alabbala labab | 4 |