

## Data Science Meeting

30 Mar 2023, 14:13:19

Mar 30, 2023, 10:34:26

start: AM

Mar 30, 2023, 03:34:26

finish: PM

to finish: 01:21:03

...

Jury announcements

Complete

Tasks [Parcels](#) [Messages](#)

D. Pandemic and quarantine

Language	Time limit	Memory limit	Input	Conclusion
All languages	2 seconds	500Kb	standard input	standard output
python3.6+numpy+pandas	5 second	9Mb		
(make)python2.7+numpy	5 second	9Mb		
(make) python3.5+numpy	5 second	9Mb		

[A. What happened?](#)[? B. Where are all the clients?](#)[C. Recommendation feed](#)[? D. Pandemic and quarantine](#)

Against the background of the pandemic, the lives of millions of people have changed dramatically - many had to give up their usual things, communicate less and attend social events. Along with the change in the way of life, user requests in Yandex.Search have also changed, which come in tens of thousands per second.

During the quarantine in Russia, the demand for a number of goods and services has increased: for online concerts and online tours of cities and museums, for goods for sports and healthy eating, for online courses, for goods for summer cottages and repairs, for home delivery. Similar questions were asked hundreds of times an hour.

Against the backdrop of the cancellation and postponement of mass events, requests for the purchase of tickets to cinemas, training in a driving school, etc., became less and less frequent.

With the introduction of the self-isolation regime, people have more free time, which many spend on things that they had not thought about before, so some questions began to be asked in the search engine for the first time.

You have 500 KB of RAM, estimate the number of unique requests. The correct answer does not exceed 100000 and no less than 50000.

We will count the decision if your answer differs by no more than 5%.


## Input Format

The first line contains a number  $n \leq 500000$  - the number of requests among which you need to find the number of unique ones. In each of  $n$  subsequent lines contain one query each. The length of each request does not exceed 1000 characters.

## Output Format

It is necessary to display one number — an estimate of the number of unique requests. The score does not have to be complete.

## Example

Input Conclusion 

```
8
VC
abstracts
VC
OK
classmates
Yandex
in contact with
OK
```

6

Notes

This example only illustrates the format of the input data. He deliberately breaks the promise that the answer is no less than50000.  
Don't use pypy because too much memory is being used at startup.

Language GNU GCC 12.2 C++20

Dial here Send file

```
1 #include<iostream>
2 #include <set>
3 using namespace std ;
4
5
6 int main () {
7     int n = 0 , i = 0 , k = 0 , s = 0 ;
8     cin >> n ;
9     int result = n ;
10    string current = "" ;
eleven    set < int > history = { 0 } ;
12    for ( i = 0 ; i < n ; i ++ ) {
13
14        cin >> current ;
15        s = 0 ;
16        for ( k = 0 ; k < current . length () ; k ++ ) {
17            s += '0' - current [ k ] ;
18        }
19        if ( ! history . insert ( s ) . second )
20        {
21            result -- ;
22        }
23    }
24    cout << result ;
25    return 0 ;
26 }
```

Send 98 attempts left Previous

Parcel time	ID	Task	Compiler	Verdict	Parcel type	Time	Memory	Test	Points
30 Mar 2023, 11:59:10	84838064	D	GNU GCC 12.2 C++20	<a href="#">submitVerdict__wrong</a>	-	164ms	400.00Kb	2	- <a href="#">report</a>
Mar 30, 2023, 11:57:19 AM	84837981	D	GNU GCC 12.2 C++20	CE	-	0ms	0B	-	- <a href="#">report</a>