

PAIRS

Given: An array of N large integers upto 20 digits each

To do: Find pairs of integers that have atleast one digit in common(not necessarily in same position)

Input:

First line contains T ($1 \leq T \leq 10$) number of testcases. Followed by description of each test case. The first line of each test case contains an integer N ($1 \leq N \leq 1\,000\,000$) followed by N large integers.

Output

Find number of pairs that have atleast one digit in common(not necessarily in same position) In

sample input

- 1) 32, 123
- 2) 32, 282
- 3) 51, 123
- 4) 123, 282

Sample Input:

1
4
32
51
123
282

Sample Output:

4