

05 Hr 51 Min  
45 Sec

**Guidelines**

Coding Area

Editor | Compile &  
Run History

Submissions

Feedback Form

Graphs

# Coding Area

A

B

C

D

E

F

ONLINE EDITOR (A)

## Digit Pairs

### + Problem Description

Given N three-digit numbers, your task is to find bit score of all N numbers and then print the number of pairs possible based on these calculated bit score.

#### 1. Rule for calculating bit score from three digit number:

From the 3-digit number,

- extract largest digit and multiply by 11 then
- extract smallest digit multiply by 7 then
- add both the result for getting bit pairs.

Note: - Bit score should be of 2-digits, if above results in a 3-digit bit score, simply ignore most significant digit.

Consider following examples:

Say, number is 286

Largest digit is 8 and smallest digit is 2

So,  $8*11+2*7=102$  so ignore most significant bit, So bit score = 02.

Say, Number is 123

Largest digit is 3 and smallest digit is 1

So,  $3*11+7*1=40$ , so bit score is 40.

#### 2. Rules for making pairs from above calculated bit scores

Condition for making pairs are

- Both bit scores should be in either odd position or even position to be eligible to form a pair.
- Pairs can be only made if most significant digit are same and at most two pair can be made for a given significant digit.

## + Constraints

$N \leq 500$

## + Input Format

First line contains an integer  $N$ , denoting the count of numbers.

Second line contains  $N$  3-digit integers delimited by space

## + Output

One integer value denoting the number of bit pairs.

## + Test Case

## + Explanation

Example 1

Input

8 234 567 321 345 123 110 767 111

Output

3

Explanation

After getting the most and least significant digits of the numbers and applying the formula given in Rule 1 we get the bit scores of the numbers as:

58 12 40 76 40 11 19 18

No. of pair possible are 3:

40 appears twice at odd-indices 3 and 5 respectively. Hence, this is one pair.

12, 11, 18 are at even-indices. Hence, two pairs are possible from these three-bit scores.

Hence total pairs possible is 3

## Upload Solution [ Question : A ]

☐ I, **shaik aleena** confirm that the answer submitted is my own. ☐ Took help from online sources (attributions)

Choose a  
File...

[CodeVita FAQs](#)  
[About CodeVita](#)  
[Privacy Policy](#)  
[Careers](#)



© 2019 Tata Consultancy Services Limited. All Rights Reserved.