

Problem of the Week

Problem E

Llama Mall

The title, “Llama Mall”, is an example of a palindrome, a phrase that is the same when read forwards or backwards. Single words like MOM and BOB are palindromes. Numbers like 7, 414 and 12321 are also palindromes.

Next week, on October 8, 2018, you should greet everyone by saying, “Happy Palindrome Day”. When the date is written in the form d-mm-yyyy, October 8, 2018 is 8102018, a palindrome.

In honour of Palindrome Day, we pose a palindrome problem.

There are pairs of four-digit palindromes whose sum is a five-digit palindrome. One such pair is 2882 and 9339. How many such pairs are there?

