

Problem 4 – Explained

Largest Palindrome Product

The main goal of this problem is to find if a number is palindrome or not. This can be done pretty quickly in Java by considering the whole number as a String and then comparing the first digit with the n -th, the $(n-1)$ -th and so on.

Another possible solution is to use a stack structure and then add all the digits in the stack and remove them one by one. Thus, we end up reversing the order of the digits. If the initial sequence of digits is identical to the one resulting from the removal of elements of the stack, then the number is palindrome.

Thus the only thing remaining to find the largest Palindrome Product of two three-digit numbers, is to iterate over all the products resulting from two three-digit numbers and decide the maximum that is also palindrome.