

Problem 8 - Largest Product in a Series

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This document originally appeared as a blog post on my website. Find it at gautammanohar.com/euler/8.

1 Problem Statement

Find the greatest product of K consecutive digits in the given N digit number.

2 My Algorithm

We use a brute force solution. There are $N - K + 1$ possible K -length substrings of a string of length N . We convert the given number to a string, find the substrings, and multiply the digits in them. We then find the maximal product. This is easily done with time complexity $O(K(N - K + 1))$.