The Hundred Thousandth

Enigma nº10

2nd December 2022

Let L be the list of number written with figures "1", "2", ..., "8", "9" exactly once in ascending order.
The length of L is 362880 (I counted myself).
The first element of L is 123456789, and the last element is 987654321.

What is the 100000th **number of** L**?**