Incorrect Mathematical Conjecture

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A direct computer search yielded:

$$55^5 + 3183^5 + 28969^5 + 85282^5 = 85359^5$$

as the counterexample to a conjecture proposed by Leonhard Euler in 1679 that at least n n th powers are required to sum to an n th power, $n > 2$ (Singh, 2017, p. 213).

Reference

Singh, S. (2017). *Fermat's Enigma: The Epic Quest to Solve the World's Greatest Mathematical Problem*. Knopf Doubleday Publishing Group.