A note on the Diophantine equation $P(z) = m! + n!$

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We start with a short overwiew of Brocard-Ramanujan type Diophantine equations. As a main result we consider the equation $P(z) = n! + m!$, where P is a polynomial with rational coefficients. We show that the ABC Conjecture implies that this equation has only finitely many integer solutions when $d \geq 2$ and $P(z) = a_d z^d + a_{d-3} z^{d-3} + \cdots + a_1 x + a_0$.