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Let  $k \geq 2$  Be Given And Suppose  $P(n)$  Is True For All Integers  $2 \leq n < k$ , I.e., Suppose That

All Such  $N$  Can Be Represented As A Product Of One Or More Primes. We Seek To Show That  $K + 1$  Also Has A Representation Of This Form. If  $K + 1$  Itself Is Prime, Then  $P(n)$  Holds For  $N = K + 1$ , And We Are Done. Now Consider The Case When  $K + 1$  Is Composite. 21th, 2024

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