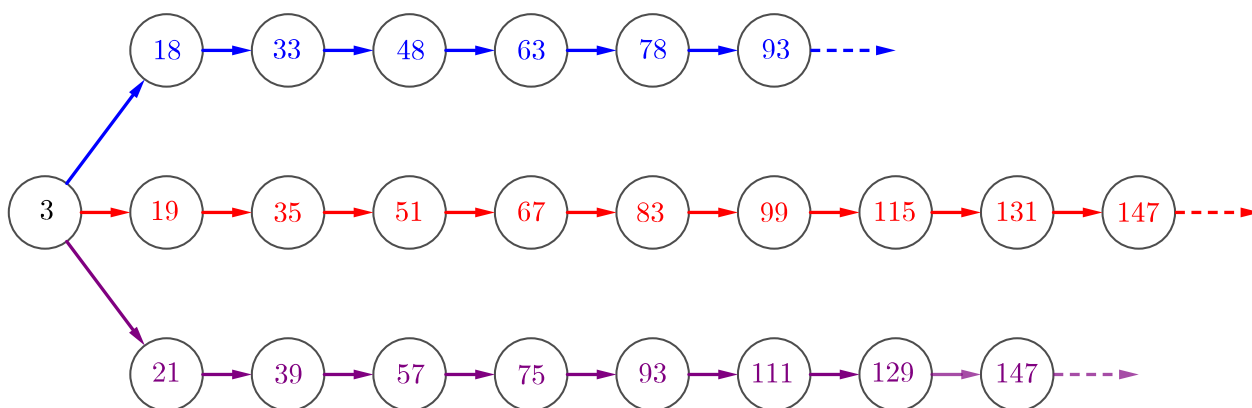


Problem of the Week

Problem D

Something in Common

Three sequences are illustrated in the following diagram.



The first term in each sequence is 3. In the upper sequence, each term after the first term is 15 more than the previous term. In the middle sequence, each term after the first term is 16 more than the previous term. In the lower sequence, each term after the first term is 18 more than the previous term. The three sequences continue indefinitely.

Of all the terms shown on this page, only the first term is common to all three sequences. What other numbers between 3 and 2019 are common to all three sequences?

