

Padovan Prime • Mark Senn • last updated on 2022-03-05 at 16:22-05

Problem Statement

From The Weekly Challenge - 154 Task #2: Padovan Prime retrieved on 2022-03-01 at 21:44-05:

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A Padovan Prime is a Padovan Number that's also prime.

In number theory, the Padovan sequence is the sequence of integers $P(n)$ defined by the initial values.

$$P(0) = P(1) = P(2) = 1$$

and then followed by

$$P(n) = P(n - 2) + P(n - 3)$$

First few Padovan Numbers are as below:

1, 1, 1, 2, 2, 3, 4, 5, 7, 9, 12, 16, 21, 28, 37, ...

Write a script to compute first 10 distinct Padovan Primes.

Expected Output

2, 3, 5, 7, 37, 151, 3329, 23833, 13091204281, 3093215881333057

Raku Solution

```
my $P := 1, 1, 1, -> $a, $b, $c {$b + $a} ... *;  
$P.grep(*.is-prime).unique.head(10).join(', ').say;
```