

All code combined

```
NeverDividesLucasSeqQ[a_, p_] := And@@ Table[Mod[a[n], p] > 0, {n, 0, p - 1}];

In[26]:= A2[a_, b_, c_, n_ /; n < 0] = 0;
A2[a_, b_, c_, 0] = 1;
A2[a_, b_, c_, n_] := A2[a, b, c, n] =
  ((a (n - 1)^2 + a (n - 1) + b) A2[a, b, c, n - 1] - c (n - 1)^2 A2[a, b, c, n - 2]) / n^2;
A3[a_, b_, c_, n_ /; n < 0] = 0;
A3[a_, b_, c_, 0] = 1;
A3[a_, b_, c_, n_] :=
  A3[a, b, c, n] = (((2 n - 1) (a (n - 1)^2 + a (n - 1) + b)) A3[a, b, c, n - 1] -
    c (n - 1)^3 A3[a, b, c, n - 2]) / n^3;
A3[a_, b_, c_, d_, n_ /; n < 0] = 0;
A4[a_, b_, c_, d_, n_] :=
  A4[a, b, c, d, n] = (((2 n - 1) (a (n - 1)^2 + a (n - 1) + b)) A4[a, b, c, d, n - 1] -
    (n - 1) (c (n - 1)^2 + d) A4[a, b, c, d, n - 2]) / n^3;
A4[a_, b_, c_, d_, n_ /; n < 0] = 0;
A4[a_, b_, c_, d_, 0] = 1;
Aa[n_] := A2[7, 2, -8, n]
Ab[n_] := A2[11, 3, -1, n]
Ac[n_] := A2[10, 3, 9, n]
Ad[n_] := A2[12, 4, 32, n]
Af[n_] := A2[9, 3, 27, n]
Ag[n_] := A2[17, 6, 72, n]
Aδ[n_] := A3[7, 3, 81, n]
Aη[n_] := A3[11, 5, 125, n]
Aα[n_] := A3[10, 4, 64, n]
Aε[n_] := A3[12, 4, 16, n]
Aζ[n_] := A3[9, 3, -27, n]
Aγ[n_] := A3[17, 5, 1, n]
As7[n_] := A4[13, 4, -27, 3, n]
As10[n_] := A4[6, 2, -64, 4, n]
As18[n_] := A4[14, 6, 192, -12, n]
```

Code just for sequence B (A005258), as an example

```
A2[a_, b_, c_, n_ /; n < 0] = 0;
A2[a_, b_, c_, 0] = 1;
A2[a_, b_, c_, n_] := A2[a, b, c, n] =
  ((a (n - 1)^2 + a (n - 1) + b) A2[a, b, c, n - 1] - c (n - 1)^2 A2[a, b, c, n - 2]) / n^2;
Ab[n_] := A2[11, 3, -1, n];
NeverDividesLucasSeqQ[a_, p_] := And@@ Table[Mod[a[n], p] > 0, {n, 0, p - 1}];
Select[Range[100], PrimeQ[#] && NeverDividesLucasSeqQ[Ab, #] &]
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The primes up to 10,000 for each sequence

A000172 :

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A005258 :

Select [Range [10000], PrimeQ[#] && NeverDividesLucasSeqQ[Ab, #] &]

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A002893 :

Select [Range [10000], PrimeQ[#] && NeverDividesLucasSeqQ[Ac, #] &]

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A081085 :

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A006077 :

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A093388 :

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A005260 : s10

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A219692 : s18

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A183204 : s7

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