

Pensieve header: Collatz with $k \rightarrow k/3$ or $(5k \pm 1)/3$.

```

Clear[vis]; n = 0;
While[n ≤ 1000,
  path = {k = ++n};
  While[! TrueQ[vis[k]],
    vis[k] = True;
    k1 = Switch[Mod[k, 3], 0, k/3, 1, (5 k + 1)/3, 2, (5 k - 1)/3];
    If[TrueQ[vis[k1]], Break[], AppendTo[path, k = k1]]
  ];
  If[Length[path] > 1, Echo[path]]
]

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