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$d[n]=a[n]-3a[n-1]+3a[n-2]-a[n-3]$
is equivalent to this set of equations:
 $d[n]=c[n]-c[n-1]$ $c[n]=b[n]-b[n-1]$
 $b[n]=a[n]-a[n-1]$. As the first step, use the last equation to eliminate $b[n]$ and $b[n-1]$ from the $c[n]$ equation:
 $c[n]=(a[n]-a[n-1])-(a[n-1]-a[n-2])$
 $= a[n]-2a[n-1]+a[n-2]$.

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discrete-time Lagrangian or Hamiltonian systems. These discrete-time models are based on a discrete variational principle, and are part of the broader field of geometric integration.

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