

It has a root $x_0 = 1\ 023\ 421\ 359\ 336\ 813\ 120\ 305\ 452\ 141\ 711\ 139\ 738\ 944\ 300\ 424\ 604\ 774$
 $010\ 479\ 430\ 148\ 427\ 431\ 097\ 720\ 591\ 475\ 023\ 393\ 293\ 396\ 816\ 808\ 640\ 851$ over the integers,
and so has our initial $f(x) \bmod p$. We check that $x_0 + \tilde{p} = 13\ 000\ 000\ 000\ 000\ 000\ 000\ 000\ 000$
 $000\ 000$
 $000\ 000$
 $000\ 000$
 $000\ 339$ is a non-trivial divisor of N .