And then came an email…

[…] As you can see, the stochastic simulations reach the same size as predicted from the classic final size equation. k doesn't seem to play a role at all. […]
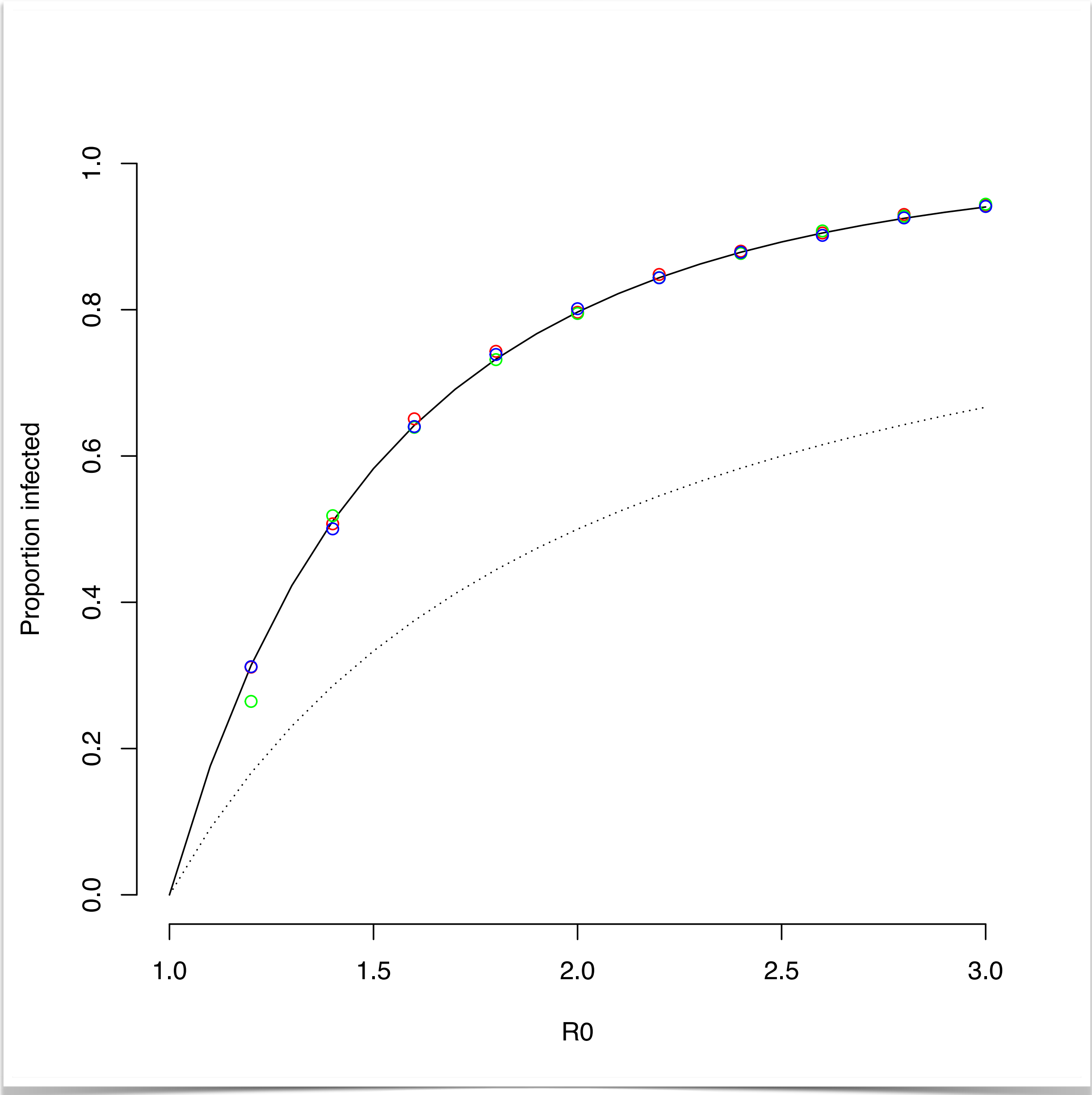
Answer in the form of a question : How correlated are the in- and out-degrees ?