gcd_ex_n[2,24]

$\forall b{:}\mathbb{N},\ a{:}\mathbb{Z}.\ \downarrow\exists y{:}\mathbb{Z}.\ \mathrm{GCD}(a;b;y)$

http://www.nuprl.org/FDLcontent/p0_399846_/p83_7668_{gcd_ex_n}.html