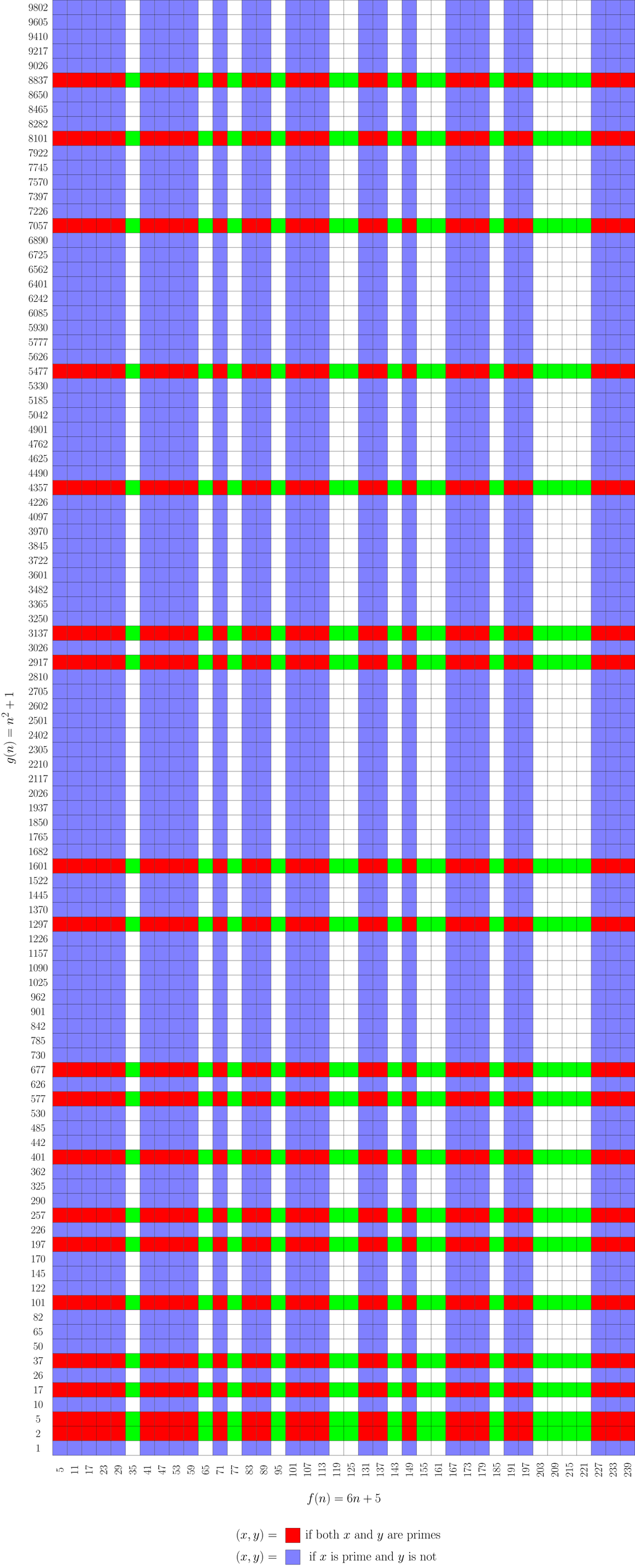

$(x, y) =$ if both x and y are primes

$(x, y) =$ if x is prime and y is not

$(x, y) =$ if y is prime and x is not