def rsa(p, q):

    n = p\*q

    o = (p-1) \* (q-1)

    e = co\_prime(o)

    private\_key = find\_d(e,o)

    public\_key = (e,n)

    return (private\_key, public\_key)

def find\_d(e,o):

    d = 0

    while ((e\*d) % o) != 1:

        d += 1

    return d

def co\_prime(o):

    for i in range(o-1, 1, -1):

        if gcd(o, i) == 1:

            return i

    print("co\_prime ERROR")

def gcd(a, b):

    if b == 0:

        return a

    else:

        return gcd(b, a % b)

def main():

    p = 13

    q = 3

    print(rsa(p,q))

if \_\_name\_\_ ==  "\_\_main\_\_":

    main()

A screen shot of a computer screen

Description automatically generated