```
m0, t1, t2 = m, 0, 1
    \quad \text{if } \mathbf{m} = \mathbf{1} :
       return 0
    while a > 1:
        q = a // m
       m, a = a \% m, m
       t1, t2 = t2 - q * t1, t1
    if t2 < 0:
       t2 += m0
    return t2
def chinese_remainder(modulus, remainders):
    N = 1
    for mod in modulus:
        N *= mod
    x = 0
    for mod, rem in zip(modulus, remainders):
       Ni = N // mod
        inverse = modular_inverse(Ni, mod)
        x += rem * Ni * inverse
    return x % N
modulus = [3, 5, 7]
remainders = [2, 3, 2]
result = chinese_remainder(modulus, remainders)
print("The solution is:", result)
OUTPUT:
The solution is: 23
```