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In [1]: import pandas as pd
import numpy as np
import sys
sys.setrecursionlimit(1000000)
def extended euclid alghorithm(a, b):
    if a == 0:
        return (b, 0, 1)
    else:
        g, x, y = extended_euclid_alghorithm(b % a, a)
        return (g, y - (b // a) * x, x)
def chinese remainder theorem(m list, a list):
    n factor = np.prod(m list)
    s_list = []
    for m i in m list:
        s list.append(extended euclid alghorithm(m i, n factor/m i)[2])
    x = 0
    for m_i, a_i, s_i in zip(m_list, a_list, s_list):
        x += a_i * s_i * n_factor / m_i
    return x % n factor
data = pd.read_csv('ieeja.txt', header=None)
data.columns = ['m']
m list = data['m'].values.tolist()
a_{list} = [1,2,6]
print(m_list)
print(a list)
print(int(chinese remainder theorem(m list, a list)))
[2, 3, 7]
```

[1, 2, 6]

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