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#lab2 assignment1

p3, p2, p1, res = 1, 1, 2, 0

in1 = int(input("Enter Your Number: "))

print(p3, p2, p1, sep = "\n")

while (True):

    res = p3 + p2 + p1

    if (res >= in1): break

    print(res)

    p3 = p2

    p2 = p1

    p1 = res

#lab2 assignment2

i = j = k = 1

while (i <= 12):

    while (j <= 12):

        while (k <= 12):

            print(f"{i: >2} x {j: >2} x {k: >2} = {i \* j \* k}")

            # print(i, j, k)

            k += 1

        j += 1

        k = 1

        print("\n")

    i += 1

    j = 1

    k = 1

#lab2 assignment3

end = int(input("Enter Your Number: "))

num = 1

while (num <= end):

    qc = 2

    prime\_var = True

    if (num == 1): prime\_var = False

    while (qc < num):

        if (num % qc == 0):

            prime\_var = False

            break

        qc += 1

    print(f"{num: >{len(str(end))}}: {prime\_var}")

    num += 1