Mathematics

Fundamentals

1.Find Point Score: 5

n=int(raw\_input().strip())

for a0 in xrange(n):

c=map(int,raw\_input().strip().split(' '))

x = 2\*c[2] - c[0]

y = 2\*c[3] - c[1]

print x,

print y

12. Summing the N series Score: 20

tests = int(raw\_input().strip())

mod = 10\*\*9 + 7

for l in xrange(tests):

n=int(raw\_input().strip())

print (n\*\*2) % mod

14. Sherlock and Permutations Score: 20

import sys

import math

tests = int(raw\_input().strip())

mod = 10\*\*9 + 7

for i in xrange(tests):

n,m = raw\_input().strip().split(' ')

n,m = [int(n),int(m)]

result = (math.factorial(n+m-1)/(math.factorial(n)\*math.factorial(m-1)) ) % mod

print result