P371

23:

procedure square(n: nonnegative integer)

if n = 0

then return 0

else

return square(n−1)+2(n−1)+1

P396-397

27:

3^50

45:

(6-1)!/2 = 60

P405-406

9：

50 \* 99 + 1 = 4951

35：

38 \* 17 = 646 < 677

38 \* 18 = 684 > 677, so it is 18.

P413-414

9：

12！/9！ = 1320

27：

a): C(25,4) = 25!/(21!)\*(4!) = 12650

b): P(25,4) = 25!/21! = 303600

P422

31:

We just need to prove (n,0) – (n,1) + (n,2) - …+(-1)^n(n,n) = 0.

Because(1 – 1)^n = 0, it has been proved.