a(n) = 5\*a(n-1) – 6\*a(n-2)

a(0)=4

a(1)=9

(a)

a(2) = 5\*a(2-1) – 6\*a(2-2)

= 5\*a(1) – 6\*a(0)

= 5\*9 – 6\*4

= 45-24

=21

a(3) = 5\*a(3-1) – 6\*a(3-2)

= 5\*a(2) – 6\*a(1)

= 5\*21 – 6\*9

= 105-54

= 51

(c)

a(n) = 3\*2n + 3n

a(3) = 3\*23+ 33

= 3\*8 + 27

= 24+27

= 51

**t(n) = n+3\*t(n-1)+t(n-2)**

t(0)=2

t(1)=1

(a)

t(2) = 2 + 3\*t(2-1)+t(2-2)

= 2 + 3\*t(1)+t(0)

= 2 + 3\*1 + 2

= 2+3+2

= 7

t(3) = 3 + 3\*t(3-1)+t(3-2)

= 3 + 3\*t(2)+t(1)

= 3 + 3\*7 + 1

= 3+21+1

= 25