Pseudo-code:

mystery(n)

if(n<=1)

return 0;

else

k=n;

for(i=1 to n)

do k=k+5;

return k\*mystery(n/2)+8\* mystery(n/4);

Recurrence relation:

0, when n<=1

f(n)

k\*mystery(n/2)+8\* mystery(n/4), when n>1