struct TData{

int zz;

int ll;

int aa;  
}

function isleapyear(int an)

begin

return (an%400 == 0) or ((an%4 == 0)and(an%100 != 0))

end

function lastdayofmonth(TData data){  
begin

if(data.ll == 2) then

if(isleapyear(data.aa)) the return 29

else return 28

if(data.ll == 4 or data.ll == 6 or data.ll == 9 or data.ll == 11) the return 30

return 31

end

}

function successor(TData data){  
begin

if(data.zz != lastdayofmonth(data)) then data.zz <- data.zz +1

else {

data.zz <- 1;

data.ll <- (data.ll + 1) % 12

if(data.ll == 1) then

data.aa <- data.aa +1

}

return data;

end  
}