Solution of the Homework N°1

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Algorithm homework1;
Var dOpen,mOpen,yOpen,dCons,mCons,yCons,nbDays,remDays,nbYears:integer;
Begin
Read(dOpen,mOpen,yOpen);
if yOpen<1 or mOpen<1 or mOpen>12 or dOpen<1 or dOpen>31 or (dOpen>30
and (mOpen=4 or mOpen=6 or mOpen=9 or mOpen=11)) or (mOpen=2 and
(dOpen>29 or ((yOpen mod 4≠0 or (yOpen mod 100=0 and yOpen mod 400≠0))
and dOpen>28)))) then
Write("Invalid date")
Else
     Begin
     Read(dCons,mCons,yCons);
     if yCons<1 or mCons<1 or mCons>12 or dCons<1 or dCons>31 or
     (dCons>30 and (mCons=4 or mCons=6 or mCons=9 or mCons=11)) or
     (mCons=2 and (dCons>29 or ((yCons mod 4≠0 or (yCons mod 100=0 and
     yCons mod 400≠0)) and dCons>28)))) or (yCons<yOpen or
     (yCons=yOpen and mCons<mOpen) or (yCons=yOpen and mCons=mOpen and
     dCons<dOpen)) Then
          Write("Invalid date")
     Else
          Begin
          If mCons=2 and ((yCons mod 4=0 and (yCons mod 100≠0 or yCons
          mod 400=0)) Then nbDays ← 29
          Else if mCons=2 Then nbDays ← 28
          Else if mCons=4 or mCons=6 or mCons=9 or mCons=11 Then
                    nbDays ← 30
          Else nbDays ← 31;
          Write(nbDays);
          remDays ← nbDays - dCons;
          Write(remDays);
          nbYears ← yCons - yOpen;
          Write(nbYears);
          End;
     End;
End.
```