

T.D. n°15 : Correction

```
program poly;

type polynome = array[0..4] of integer;

procedure Entre_Poly(VAR P:polynome);
var i:integer;
begin
  for i:=4 downto 0 do
    begin
      writeln('Coefficient en X^',i);
      readln(P[i]);
    end;
  end;
end;

procedure Affiche_Poly(P:polynome);
begin
  writeln(P[4],'X^4 + ',P[3],'X^3 + ',P[2],'X^2 + ',P[1],'X + ',P[0]);
end;

procedure Derive_Poly(P:polynome;VAR Q:polynome);
var i:integer;
begin
  for i:=1 to 4 do Q[i-1]:=i*P[i];
  Q[4]:=0;
end;

procedure Somme_Poly(P,Q:polynome;VAR R:polynome);
var i:integer;
begin
  for i:=0 to 4 do R[i]:=P[i]+Q[i];
end;

var P,Q,R,S,T:polynome;

begin
  Entre_Poly(P);
  Derive_Poly(P,Q);
  Derive_poly(Q,R);
  Somme_Poly(P,Q,S);
  Somme_poly(S,R,T);
  writeln('Le résultat vaut :');
  Affiche_Poly(T);
  readln;
end.
```