

Colegă: Purici Adriana

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// 3 p.50
program stival;

type
    tren = ^vagon;
    vagon = record
        ni: integer;
        si: string;
        af: 1960..2000;
        tv: string;
        cdi: real;
        pv: string;
        prec: tren;
    end;

var
    s: tren;
    n: integer;

procedure introduc;
var
    r: tren;
begin
    new(r);
    write('nr. de inmatriculare: '); readln(r^.ni);
    write('statia de inmatriculare: '); readln(r^.si);
    write('anul fabricarii: '); readln(r^.af);
    write('tipul vagonului: '); readln(r^.tv);
    write('capacitatea de incarcare (tone): '); readln(r^.cdi);
    write('proprietarul vagonului: '); readln(r^.pv);
    r^.prec := s;
    s := r;
end;

procedure afis;
var
    r: tren;
begin
    if s = nil then writeln('stiva este vida')
    else begin
        writeln('stiva include elementele:');
        r := s;
        while r <> nil do
            begin
                writeln('nr. de inmatriculare: ', r^.ni);
                writeln('statia de inmatriculare: ', r^.si);
                writeln('anul fabricarii: ', r^.af);
                writeln('tipul vagonului: ', r^.tv);
                writeln('capacitatea de incarcare (tone): ', r^.cdi);
                writeln('proprietarul vagonului: ', r^.pv);
                r := r^.prec;
                writeln;
            end;
        end;
    end;
end;

begin
    writeln('introdu nr. de vagoane'); readln(n);
    for var i := 1 to n do introduc;
    writeln;
    afis;
end.
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// 4 p.50
program stiva2;
type
  adresa = ^angajat;
  angajat = record
    nm: string;
    pr: string;
    an: 1930..1985;
    zi: 1..31;
    luna: 1..12;
    anul: integer;
    prec: adresa;
  end;

var
  s: adresa;
  n: integer;

procedure introduc;
var
  r: adresa;
begin
  new(r);
  write('numele: '); readln(r^.nm);
  write('prenumele: '); readln(r^.pr);
  write('anul nasterii: '); readln(r^.an);
  writeln('data angajarii-');
  write('ziua: '); readln(r^.zi);
  write('luna: '); readln(r^.luna);
  write('anul: '); readln(r^.anul);
  r^.prec := s;
  s := r;
end;

procedure afis;
var
  r: adresa;
begin
  if s = nil then writeln('stiva este vida')
  else begin
    writeln('stiva include elementele:');
    r := s;
    while r <> nil do
      begin
        writeln('nume: ', r^.nm);
        writeln('prenume: ', r^.pr);
        writeln('anul nasterii: ', r^.an);
        writeln('data angajarii-');
        writeln('ziua: ', r^.zi);
        writeln('luna: ', r^.luna);
        writeln('anuli: ', r^.anul);
        r := r^.prec;
        writeln;
      end;
    end;
  end;
end;

begin
  writeln('introdu nr. de angajati'); readln(n);
  Writeln('introdu datele angajatilor:');
  for var i := 1 to n do introduc;
  writeln;
  afis;
end.

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// 2 p.54
program coadal;

type
  aeroport = ^avion;
  avion = record
    ndi: integer;
    ta: string;
    nr: integer;
    urm: aeroport;
  end;

var
  p, u: aeroport;
  n: integer;

procedure introduc;
var
  r: aeroport;
begin
  new(r);
  write('numar de inmatriculare: ');readln(r^.ndi);
  write('tipul avionului: ');readln(r^.ta);
  write('numarul rutei: ');readln(r^.nr);
  r^.urm := nil;
  if p = nil then begin p := r;u := r end
  else begin u^.urm := r;u := r end;
end;

procedure afis;
var
  r: aeroport;
begin
  if p = nil then writeln('coada este vida')
  else begin
    writeln('coada include elementele:');
    r := p;
    while r <> nil do
      begin
        writeln('numar de inmatriculare: ', r^.ndi);
        writeln('tipul avionului: ', r^.ta);
        writeln('numarul rutei: ', r^.nr);
        r := r^.urm;
      end;
    end;
  end;
end;

begin
  writeln('introdu nr de avioane:');readln(n);
  for var i := 1 to n do introduc;
  writeln;
  afis;
end.

```