**(ex. 3 pag. 50)**

**Program** P1;

**const** Vagon=[1960..2000];

**type** AdresaCelula=^Celula;

Celula=**record**

Numarul:integer;

Statia:string;

Anul:integer;

Tipul:string;

Capacitatea:real;

Proprietarul:string;

Predecesor:AdresaCelula;

**end**;

**var** s:AdresaCelula;

i,n: integer;

**procedure** Introducere;

**var** R:AdresaCelula;

**begin**

**new**(R);

writeln('Dati..');

write('Numarul de inmatriculare'); readln(R^.Numarul);

write('Statia de inmatriculare'); readln(R^.Statia);

write('Anul fabricarii'); readln(R^.Anul);

write('Tipul vagonului'); readln(R^.Tipul);

write('Capacitatea de incarcare'); readln(R^.Capacitatea);

write('Proprietatul vagonului'); readln(R^.Proprietarul);

R^.Predecesor:=s;

s:=R;

**end**;

**procedure** Afisare;

**var** R:AdresaCelula;

**begin**

**if** s<>nil **then**

**begin**

R:=s;

**while** R<>nil **do**

**begin**

write('Numarul de inmatriculare'); writeln(R^.Numarul);

write('Statia de inmatriculare'); writeln(R^.Statia);

write('Anul fabricarii'); writeln(R^.Anul);

write('Tipul vagonului'); writeln(R^.Tipul);

write('Capacitatea de incarcare'); writeln(R^.Capacitatea);

write('Proprietarul vagonului'); writeln(R^.Proprietarul);

R:=R^.Predecesor;

**end**;

**end**;

**end**;

**begin**

readln(n);

**for** i:=1 **to** n **do** Introducere; Afisare;

**end**.

**(ex.4 pag. 50)**

**Program** P2;

**type** Angajati=^Celule;

Celule=**record**

Nume:string;

Prenume:string;

AnulNasterii:integer;

Ziua:integer;

Luna:integer;

Anul:integer;

Predecesor:Angajati;

**end**;

**var** P,R,V:Angajati;

s:Angajati; c:integer;

**procedure** Creare;

**var** R:Angajati;

**begin**

**new**(R);

writeln('Numele'); readln(R^.Nume);

writeln('Prenumele'); readln(R^.Prenume);

writeln('Anul nasterii'); readln(R^.AnulNasterii);

writeln('Ziua'); readln(R^.Ziua);

writeln('Luna'); readln(R^.Luna);

writeln('Anul'); readln(R^.Anul);

R^.Predecesor:=s;

s:=R;

**end**;

**procedure** Afisare;

**var** R:Angajati;

**begin**

**if** s=nil **then** writeln('Stiva nu exista')

**else begin**

writeln('Stiva include elementele ');

R:=s;

**while** r<>nil **do begin**

writeln(R^.Nume);

writeln(R^.Prenume);

writeln(R^.AnulNasterii);

writeln(R^.Ziua);

writeln(R^.Luna);

writeln(R^.Anul);

R:=R^.Predecesor;

**end**;

**end**;

**end**;

**begin**

s:=nil;

**repeat**

writeln('Meniu:');

writeln('1-Creare');

writeln('2-Afisare');

writeln('3-Oprire');

write('Optiunea='); readln(c);

**case** c **of**

1:Creare;

2:Afisare;

3:

**else** writeln('optiune necunoscute')

**end**;

**until** c=3;

**end**.

**(ex. 2 pag. 54)**

**Program** P3;

**type** Avion=^Celule;

Celule=**record**

NumarulDeInmatriculare:integer;

Tipul:string;

NumarulRutei:integer;

Urmator:Avion;

**end**;

**var** s,P,R:Avion;

c: integer;

**procedure** Creare;

**var** R:Avion;

**begin**

**new**(R);

writeln('Numarul de inmatriculare'); readln(R^.NumarulDeInmatriculare);

writeln('Tipul'); readln(R^.Tipul);

writeln('Numarul rutei'); readln(R^.NumarulRutei);

R^.Urmator:=nil;

**if** s=nil **then begin** P:=R; R:=R **end**

**else begin** R^.Urmator:=R; R:=R **end**;

**end**;

**procedure** Afisare;

**var** A: Avion;

**begin**

**if** s=nil **then** writeln('Coada nu exista')

**else begin**

writeln('Coada include');

writeln('Avioanele:');

A:=P;

**while** R<>nil **do begin**

writeln(R^.NumarulDeInmatriculare);

writeln(R^.Tipul);

writeln(R^.NumarulRutei);

R:=R^.Urmator;

**end**;

**end**;

**end**;

**begin**

P:=nil; R:=nil;

**repeat**

writeln('Meniu:');

writeln('1 - Creare');

writeln('2 - Afisare');

writeln('3 - Oprire');

write('Optiunea:'); readln(c);

**case** c **of**

1:creare;

2:afisare;

3:

**else** writeln('Optiune necunoscuta')

**end**;

**until** c=3;

**end**.