```
type
adresacandidat = ^candidat;
candidat = record
numeprenume: string;
notamed: real;
urm: adresacandidat;
end:
var p, c, u, g:adresacandidat;
procedure creare;
var c, u:ac; s:string;
begin
writeln('Lista de elevi si nota medie: (Pentru a finisa lista introduceti "end")'); readln(s);
while s<>'end' do
new(c); c^.numeprenume:=s; readIn(c^.numeprenume); c^.urm:=nil;
 if p=nil then p:=c else u^.urm:=c;u:=c;
 readIn(s);
 end;
 end;
procedure afisare;
begin
 writeln('Lista actuala este:');
c:=p;
while c<>nil do
 writeIn(c^. numeprenume, ':', c^. notamed);
 c:=c^.urm;
 end;
 end;
procedure excludere;
 label 1;
 var q:ac; cheie: string;
 writeln('Introduceti numele elveului ce urmeaza sa fie exclus');
 readIn(cheie);
 c:=p;q:=c;
 while c<>nil do begin
 if c^. numeprenume=cheie then goto 1;
 q:=c; c:=c^. urm;
 end;
 1: if c=nil then writeln('Element inexistent')
 else begin if c=p then p:=c^.urm
 else q^.urm:=c^.urm;
 dispose(c);
 end;
 end:
procedure includere;
 label 1;
 var q:ac; cheie: string;
begin
 new(q);writeln('Dati datele elevului ce urmeaza sa fie inclus');
 readIn(q^. numeprenume); readIn(q^. notamed);
```

```
writeln('Indicati dupa ce persoana face includerea');
 readIn(cheie);
 c:=p;
 while c<>nil do
 if c^. numeprenume=cheie then goto 1;
 c:=c^.urm;
 end;
 1: if c=nil then begin
 writeIn('Element inexistent');
 dispose(q);
 end
 else begin
 q^.urm:=c^.urm;
 c^.urm:=q;
 end;
 end;
 procedure medmm7_5;
 writeln('Persoanele cu media mai mare ca 7,5');
 c:=p;
 while c<>nil do
 if c^. notamed>=7.5 then writeIn(c^. numeprenume, ':', c^. notamed);
 c:=c^. urm;
 end;
 end;
 procedure med9;
 var q:adresacandidat;
 begin
 g:=nil;c:=p;
 while c<>nil do begin
 if c^. notamed>=9.0 then begin
 new(q); q^. numeprenume:=c^. numeprenume;
 q^. notamed:=c^. notamed; q^. urm:=nil;
 if g=nil then begin
 g:=q; u:=q; end
 else begin
 u^.urm:=q; u:=q; end;
 end;
 c:=c^. urm;
 end;
end;
procedure excluderecc6;
var q:ac;
begin
writeln('Se exclud persoanele cu media mai mica decat 6.0');
c:=p;q:=c;
while c<>nil do begin
if c^. notamed<6 then</pre>
 if c=p then begin p:=c^.urm; u:=p; dispose(c);c:=u; end
 else begin u^.urm:=c^.urm; dispose(c);c:=u^.urm; end
 else begin u:=c; c:=c^.urm; end;
```

```
end;
end;
 begin
 creare;
 excludere; afisare;
 includere; afisare;
 medmm7_5;
 med9;
 excluderecc6;afisare;
 end.
Program Ex_4b;
type AdresaElev=^Elev;
Elev=record
NumePrenume:string;
Urm:AdresaElev;
end;
var p,c,l:AdresaElev;
n,m:integer;
Nume:string;
procedure creare1;
var i:integer;
u:AdresaElev;
begin
write('n='); readIn(n);
writeln('Dati numele din lista');
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
p:=c; u:=c;
for i:=2 to n do begin
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
u^.Urm:=c;
```

u:=c;

```
end;
end;
procedure creare2;
var i:integer;
u:AdresaElev;
begin
write('m='); readIn(m);
writeln('Dati numele din lista');
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
l:=c; u:=c;
for i:=2 to m do begin
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
u^.Urm:=c;
u:=c;
end;
end;
procedure afisare(q:AdresaElev);
begin
writeln('Lista:');
c:=q;
while c<>nil do begin
writeIn(c^.NumePrenume);
c:=c^.Urm;
end;
end;
procedure concatenare;
begin
c:=p;
while c^.urm<>nil do
c:=c^.urm;
```

```
c^.urm:=l;
end;
begin
creare1; afisare(p); creare2; afisare(l); concatenare; afisare(p);
end.
Program Ex_4c;
type AdresaElev=^Elev;
Elev=record
NumePrenume:string;
Urm:AdresaElev;
end;
var p,c,l:AdresaElev;
n,m:integer;
Nume:string;
procedure creare;
var i:integer;
u:AdresaElev;
begin
write('n='); readIn(n);
writeln('Dati numele din lista');
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
p:=c; u:=c;
for i:=2 to n do begin
new(c);
readIn(c^.NumePrenume);
c^.Urm:=nil;
u^.Urm:=c;
u:=c;
end;
end;
procedure afisare(q:AdresaElev);
```

```
begin
writeIn('Lista:');
c:=q;
while c<>nil do begin
writeIn(c^.NumePrenume);
c:=c^.Urm;
end;
end;
procedure descompunere;
label 1;
begin
c:=p;
writeln('Dati ultimul nume din prima lista');
readIn(Nume);
while c<>nil do
begin
if c^.NumePrenume=Nume then goto 1;
c:=c^.Urm;
end;
1:if c=nil then begin
writeln('Nu exista numele'); dispose(p); end
else begin
I:=c^.urm;
c^.urm:=nil;
end;
end;
begin
creare; afisare(p); descompunere; afisare(p); afisare(l);
end.
```

```
program Ex_4d;
type
 AdresaCandidat = ^Candidat;
 Candidat = record
  NumePrenume: string;
  NotaMedie: real;
  Urm: AdresaCandidat;
 end;
var
 p, c, u, p1: AdresaCandidat;
 n: integer;
procedure creare;
var
i: integer;
begin
 write('n=');readIn(n);
 new(c);
 readIn(c^.NumePrenume);
 readIn(c^.NotaMedie);
 c^.Urm := nil;
 p := c;u := c;
 for i := 2 to n do
 begin
  new(c);
  readIn(c^.NumePrenume);
  readln(c^.NotaMedie);
  c^.Urm := nil;
  u^.Urm := c;
  u := c;
 end;
end;
```

```
procedure afisare;
begin
 c := p;
 while c <> nil do
 begin
  writeln(c^.NumePrenume);
  writeln(c^.NotaMedie);
  c := c^{\cdot}.Urm;
 end;
end;
procedure selectare;
begin
c:=p;
writeln('Elevii ai caror nume incepe cu C:');
while c<>nil do begin
if c^.NumePrenume [1]='C' then writeln(c^.NumePrenume);
c:=c^.urm;
end;
end;
begin
creare; afisare; selectare;
end.
```