**Ex 3 p 46 completare cu cazurile nerezolvate**

**Program** p1;

**type** adresa=^candidat;

candidat = **record**

nm:string;

nota:real;

urm:adresa;

**end**;

**var** c,p,u:adresa;

n,i:integer;

nume:string;

**procedure** citire;

**var** i:integer;

**begin**

write('n'); readln(n);

**new**(c);

write('introdu nume si nota'); readln(c^.nm); readln(c^.nota);

c^.urm:=nil;

p:=c;

u:=c;

**for** i:=2 **to** n **do begin**

**new**(c);

write('introdu nume si nota'); readln(c^.nm); readln(c^.nota);

c^.urm:=nil;

u^.urm:=c;

u:=c;

**end**;

**end**;

**procedure** afisare;

**begin**

c:=u ;

**while** c<>nil **do begin**

**if** c^.nota>7.5 **then** write(c^.nm,' ', c^.nota);

c:=c^.urm;

**end**;

**end**;

**procedure** excludere(nume:string);

**var** ne:integer;

**begin**

ne:=0;

write('numele elevului care pleaca'); read(nume);

c:=p;

u:=c;

**while** c<>nil **do begin**

**if** c^.nm=nume **then if** p=c **then begin** p:=c^.urm; u:=p; dispose(c); c:=u^.urm; **end**

**else begin** u^.urm:=c^.urm; dispose(c); c:=u^.urm; **end**

**else begin** inc(ne); u:=c; c:=c^.urm; **end**;

**end**;

**end**;

**begin**

citire; excludere(nume); afisare;

**end**.

TEMA PENTRU ACASA

//ex4 p 46 caz c

**program** PrelucrareLista;

**type** AdresaCandidat=^Candidat;

Candidat=**record**

Numeprenume :string;

notamedia :real;

Urm :AdresaCandidat;

**end**;

**var** n,i:integer;

p,r,v,u : AdresaCandidat;

**procedure** citire;

**var** i:integer;

**begin**

write('n='); readln(n);

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm:=nil;

p:=r;

u:=r;

**for** i:=2 **to** n **do begin**

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm:=nil;

u^.urm:=r;

u:=r;

**end**;

**end**;

**procedure** afisare;

**begin**

r:=p ;

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

writeln(r^.numeprenume,' ', r^.notamedia, ' ');

r:=r^.urm;

**end**;

**end**;

**procedure** afisare2;

**begin**

r:=v ;

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

write(r^.numeprenume,' ', r^.notamedia);

r:=r^.urm;

**end**;

**end**;

**procedure** cei\_cu\_9(**var** p,u:AdresaCandidat);

**var** q: AdresaCandidat;

**begin** u:=nil; r:=p;

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

**begin if** r^.notamedia>=9.0

**then begin new**(q); q^.numeprenume:=r^.numeprenume;

q^.notamedia:=r^.notamedia; q^.urm:=nil;

**if** u=nil **then begin** u:=q; v:=q; **end**

**else begin** v^.urm:=q; v:=q; **end**;

**end**;

r:=r^.urm;

**end**;

**end**;

**procedure** exclude;

**begin** r:=p; v:=r;

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

**begin if** r^.notamedia<9.0

**then if** P=r **then begin** P:=r^.urm; v:=p; dispose (r);r:=v; **end**

**else begin** v^.urm:=r^.urm; dispose (r);r:=v^.urm; **end**

**else begin** v:=r; r:=r^.urm; **end**;

**end**;

**end**;

**begin**

citire; writeln('lista initiala')

afisare; writeln('lista modificata 1:');

cei\_cu\_9(p,u);

exclude;

afisare; writeln('lista modificata 2:');

afisare2;

**end**.

//ex4 p 46 caz d

**program** PrelucrareLista;

**type** AdresaCandidat=^Candidat;

Candidat=**record**

Numeprenume :string;

notamedia :real;

Urm :AdresaCandidat;

**end**;

**var** n,i:integer;

p,r,v,u : AdresaCandidat;

**procedure** citire;

**var** i:integer;

**begin**

write('n='); readln(n);

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm:=nil;

p:=r;

u:=r;

**for** i:=2 **to** n **do begin**

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm:=nil;

u^.urm:=r;

u:=r;

**end**;

**end**;

**procedure** afisare;

**begin**

r:=p ;

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

writeln(r^.numeprenume,' ', r^.notamedia, ' ');

r:=r^.urm;

**end**;

**end**;

**procedure** afisare2;

**begin**

r:=v ;

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

write(r^.numeprenume,' ', r^.notamedia);

r:=r^.urm;

**end**;

**end**;

**procedure** cei\_cu\_9(**var** p,u:AdresaCandidat);

**var** q: AdresaCandidat;

**begin** u:=nil; r:=p;

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

**begin if** r^.notamedia>=9.0

**then begin new**(q); q^.numeprenume:=r^.numeprenume;

q^.notamedia:=r^.notamedia; q^.urm:=nil;

**if** u=nil **then begin** u:=q; v:=q; **end**

**else begin** v^.urm:=q; v:=q; **end**;

**end**;

r:=r^.urm;

**end**;

**end**;

**begin**

citire;

writeln('lista initiala'); afisare;

writeln('elem selectate'); cei\_cu\_9(p,u);

afisare2;

**end**.

//ex4 p 46 caz b

**program** PrelucrareLista;

**type**

AdresaCandidat = ^Candidat;

Candidat = **record**

Numeprenume: string;

notamedia: real;

Urm: AdresaCandidat;

**end**;

**var**

n,n2,i2, i: integer;

p, r, v, u, p2, r2, u2: AdresaCandidat;

**procedure** citire;

**var**

i: integer;

**begin**

write('n='); readln(n);

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm := nil;

p := r;

u := r;

**for** i := 2 **to** n **do**

**begin**

**new**(r);

writeln('introdu nume si nota'); readln(r^.numeprenume); readln(r^.notamedia);

r^.urm := nil;

u^.urm := r;

u := r;

**end**;

**end**;

**procedure** citire2;

**var**

i2: integer;

**begin**

write('n='); readln(n2);

**new**(r2);

writeln('introdu nume si nota'); readln(r2^.numeprenume); readln(r2^.notamedia);

r2^.urm := nil;

p2 := r2;

u2 := r2;

**for** i2 := 2 **to** n2 **do**

**begin**

**new**(r);

writeln('introdu nume si nota'); readln(r2^.numeprenume); readln(r2^.notamedia);

r2^.urm := nil;

u2^.urm := r2;

u2 := r2;

**end**;

**end**;

**procedure** afisare;

**begin**

r := p;

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

**begin**

writeln(r^.numeprenume, ' ', r^.notamedia, ' ');

r := r^.urm;

**end**;

**end**;

**procedure** afisare2;

**begin**

r2 := p2;

**while** r2 <> nil **do**

**begin**

writeln(r2^.numeprenume, ' ', r2^.notamedia, ' ');

r2 := r2^.urm;

**end**;

**end**;

**procedure** concatenare;

**begin**

**new**(R); r^.numeprenume:=r2^.numeprenume; r^.notamedia:=r2^.notamedia;

r^.urm:=p; P:=R;

**end**;

**begin**

writeln('lista 1');

citire;

writeln('lista 2');

citire2;

writeln('afisare lista 1');

afisare;

writeln(' afisare lista 2');

afisare2;

concatenare;

writeln('lista concatenata');

afisare;

**end**.