

**program PrelucrareLista;**

type AdresaCandidat=^Candidat;

Candidat=record

Numeprenume :string;

notamedia :real;

Urm :AdresaCandidat;

end;

var i,n : integer; nume:string; media : real; p,r,v,u : AdresaCandidat;

**procedure creare(var p:AdresaCandidat);**

begin write('introdu elevul (Cheia de sfarsit e cuvantul final) '); readln(nume);

while nume <>'final' do

begin write('introdu media elevului ',nume,' '); readln(media);

new(R); r^.numeprenume:=nume; r^.notamedia:=media; r^.urm:=nil;

if P=nil then P:=R else begin v^.urm:=r;

v:=r;

write('Cheia de sfarsit e cuvantul final '); readln(nume);

end;

**end;{creare}**

**procedure exclude(var p:AdresaCandidat;var ne:integer);**

begin ne:=0; {ne- numarul de elemente} r:=p; v:=r;

while r<>nil do

begin if r^.notamedia<6.0

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 ne:=ne+1; v:=r; r:=r^.urm; end;

end;

**end;{exclude}**

**procedure afisare1(var p:AdresaCandidat;var ne:integer);**

begin r:=p;

while r<>nil do

begin if (r^.urm<>nil) and (r<>p)

then writeln(r^.numeprenume:20,r^.notamedia:7:2);

r:=r^.urm;

end;

**end;{afisare1}**

**procedure include(var p:AdresaCandidat);**

begin writeln('Introduceti candidatul care depune actele');

readln(ume); readln(media);

new(R); r^.numeprenume:=ume; r^.notamedia:=media;

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

**end;{include}**

**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;{cei\_cu\_9}**

**procedure afisare(u:AdresaCandidat);**

begin R:=u;

while R<>nil do

begin writeln(r^.numeprenume:20,r^.notamedia:7:2); r:=r^.urm; end;

**end;{afisare}**

**begin**

p:=nil; creare(p); writeln('Lista initiala este'); afisare(p);

writeln('Lista fara primul si ultimul'); afisare1(p,n);

include(p); writeln('Lista cu cel inclus la inceputul listei'); afisare(p);

cei\_cu\_9(p,u); writeln('Lista celor cu 9'); afisare(u);

exclude(p,n); writeln('Lista dupa excludere este'); afisare(p);

**end.**