

**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 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}**

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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}

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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;
end;{cei_cu_9}

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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;
end;{afisare}

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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.

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