

**program ex3;**

type AdresaCandidat=^Candidat;

Candidat=record

Numeprenume :string;

notamedia :real;

Urm :AdresaCandidat;

end;

var i,n : integer; p,r,v,u : AdresaCandidat;

procedure creare(var p:AdresaCandidat);

var nume:string; media : real;

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;

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;

procedure excludeC(var p:AdresaCandidat);

var n:string;

begin r:=p; v:=r;

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

readln(n);

while r<>nil do

begin if r^.numeprenume= n

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

end;

end;

end;

procedure include(var p:AdresaCandidat);

var nume:string; media : real;

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

readln(nume); readln(media);

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

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

end;

procedure afisare75(u:AdresaCandidat);

begin R:=u;

while R<>nil do

begin if r^.notamedia>7.5 then writeln(r^.numeprenume:20,r^.notamedia:7:2); r:=r^.urm; end;

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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 exclude6(var p:AdresaCandidat;var ne:integer);
begin ne:=0; 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;

begin
  p:=nil; creare(p); writeln('Lista initiala este'); afisare(p);
  excludeC(p); writeln('Lista dupa excluderea candidatului ce si-a retras actele este'); afisare(p);
  include(p); writeln('Lista cu cel inclus la inceputul listei'); afisare(p);
  writeln('Lista celor cu media mai mare de 7,5'); afisare75(p);
  cei_cu_9(p,u); writeln('Lista celor cu 9'); afisare(u);
  excludeC(p); writeln('Lista dupa excluderea candidatilor cu media mai mica de 6 este'); afisare(p);
end.

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#### **Program ex4;**

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type
  sved = ^anketa;
  anketa = record
    fio: string;
    voz: byte;
    next: sved;
  end;

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**var**

first, first1: sved;  
last, last1: sved;  
p, p1: sved;  
n, i: byte;

**begin**

write('cate elemente');readln(n);  
**new**(first);  
write('Numele si prenumele:');  
readln(first^.fio);  
write('Varsta:');  
readln(first^.voz);  
first^.next := nil;  
last := first;  
**for** i := 2 to n **do**  
  **begin**  
    **new**(p);  
    write('Numele si prenumele:');  
    readln(p^.fio);  
    write('Varsta:');  
    readln(p^.voz);  
    p^.next := nil;  
    last^.next := p;  
    last := p;  
  **end**;  
  p := first;  
**while** p <> nil **do**  
  **begin**  
    writeln(p^.fio:15, p^.voz:10);  
    p := p^.next;  
  **end**;  
  readln;

write('Nr elementelor:');readln(n);  
**new**(first1);  
write('Numele si prenumele:');  
readln(first1^.fio);  
write('Varsta:');  
readln(first1^.voz);  
first1^.next := nil;  
last1 := first1;  
**for** i := 2 to n **do**  
  **begin**  
    **new**(p1);  
    write('Numele si prenumele:');  
    readln(p1^.fio);  
    write('Varsta:');  
    readln(p1^.voz);  
    p1^.next := nil;  
    last1^.next := p1;  
    last1 := p1;  
  **end**;  
  p1 := first1;  
**while** p1 <> nil **do**  
  **begin**  
    writeln(p1^.fio:15, p1^.voz:10);  
    p1 := p1^.next;  
  **end**;  
  writeln('Listei 1 atasam elementele listei 2 - 1');  
  writeln('Listei 2 atasam elementele listei 1 - 2');  
**repeat**  
  write('Introdu 1 sau 2: ');readln(i);  
**until** i in [1, 2];

**case i of**

**1:**

**begin**

last^.Next := First1;

last := last1;

p1 := first;

**while** p1 <> nil **do**

**begin**

writeln(p1^.fio:15, p1^.voz:10);

p1 := p1^.next;

**end;**

**end;**

**2:**

**begin**

last1^.Next := First;

last1 := last;

p1 := first1;

**while** p1 <> nil **do**

**begin**

writeln(p1^.fio:15, p1^.voz:10);

p1 := p1^.next;

**end;**

**end;**

**end;**

readln;

**end.**