//Ex.4b

**type**

sved = ^anketa;

anketa = **record**

fio: string;

voz: byte;

next: sved;

**end**;

**var**

first, first1: sved;

last, last1: sved;

p, p1: sved;

n, i: byte;

**begin**

write('Nr elementelor in lista:');readln(n);

**new**(first);

write('Introduceti numele si prenumele:');

readln(first^.fio);

write('Introduceti varsta:');

readln(first^.voz);

first^.next := nil;

last := first;

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

**begin**

**new**(p);

write('Introduceti numele si prenumele:');

readln(p^.fio);

write('Introduceti 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 in lista:');readln(n);

**new**(first1);

write('Introduceti numele si prenumele:');

readln(first1^.fio);

write('Introduceti varsta:');

readln(first1^.voz);

first1^.next := nil;

last1 := first1;

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

**begin**

**new**(p1);

write('Introduceti numele si prenumele:');

readln(p1^.fio);

write('Introduceti 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 se vor atasa elementele listei 2 - 1');

writeln('Listei 2 se vor atasa 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**.

//Ex.3

**type**

ac = ^candidat;

candidat = **record**

np: string;

nm: real;

urm: ac;

**end**;

**var** p,c,u,g:ac;

**procedure** creare;

**var** c,u:ac; s:string;

**begin**

writeln('Dati lista de elevi si nota lor medie: (Pentru a finisa lista itroduceti "end")');readln(s);

**while** s<>'end' **do**

**begin**

**new**(c); c^.np:=s; readln(c^.nm); c^.urm:=nil;

**if** p=nil **then** p:=c **else** u^.urm:=c;u:=c;

readln(s);

**end**;

**end**;

**procedure** afisare;

**begin**

writeln('Lista curenta este:');

c:=p;

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

**begin**

writeln(c^.np,':',c^.nm);

c:=c^.urm;

**end**;

**end**;

**procedure** exclude;

**label** 1;

**var** q:ac; cheie: string;

**begin**

writeln('Introduceti numele elveului ce urmeaza sa fie exclus');

readln(cheie);

c:=p;q:=c;

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

**if** c^.np=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** includ;

**label** 1;

**var** q:ac; cheie: string;

**begin**

**new**(q);writeln('Dati datele elevului ce urmeaza sa fie inclus');

readln(q^.np);readln(q^.nm);

writeln('Indicati dupa ce persoana se face includerea');

readln(cheie);

c:=p;

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

**begin**

**if** c^.np=cheie **then goto** 1;

c:=c^.urm;

**end**;

1:**if** c=nil **then begin**

writeln('Element inexistent');

dispose(q);

**end**

**else begin**

q^.urm:=c^.urm;

c^.urm:=q;

**end**;

**end**;

**procedure** afis7\_5;

**begin**

writeln('Persoanele cu media mai mare ca 7,5');

c:=p;

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

**begin**

**if** c^.nm>=7.5 **then** writeln(c^.np,':',c^.nm);

c:=c^.urm;

**end**;

**end**;

**procedure** listanoua;

**var** q:ac;

**begin**

g:=nil;c:=p;

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

**if** c^.nm>=9.0 **then begin**

**new**(q); q^.np:=c^.np;

q^.nm:=c^.nm; 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** exclud6;

**var** q:ac;

**begin**

writeln('Se exclud persoanele cu media mai mica ca 6.0');

c:=p;q:=c;

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

**if** c^.nm<6 **then**

**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;

exclude;afisare;

includ;afisare;

afis7\_5;

listanoua;

exclud6;afisare;

**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=');readln(n);

**new**(c);

readln(c^.NumePrenume);

readln(c^.NotaMedie);

c^.Urm := nil;

p := c;u := c;

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

**begin**

**new**(c);

readln(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^.Urm;

**end**;

**end**;

**procedure** select;

**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; select;

**end**.