**program** 3p46;

**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');

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** lista9;

**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;

lista9;

exclud6;afisare;

**end**.