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program ex_3;
type AdresaCandidat=^Candidat;
Candidat=record
Numeprenume :string;
notamedia :real;
Urm :AdresaCandidat;
end;

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

procedure creare(var p:AdresaCandidat);
begin write('introdu elevul '); 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 exclude(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;

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;

procedure include(var p:AdresaCandidat);
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 eminenti(var p,u:AdresaCandidat);

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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;

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procedure exclude1(var p:AdresaCandidat;var ne:integer; q:string);
begin ne:=0; r:=p; v:=r; writeln('Scrieti numele elevului exclus'); readln(q);
  while r<>nil do
  begin if r^.NumePrenume=q
  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;

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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;

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begin
p:=nil; creare(p); writeln('Lista initiala este'); afisare(p);
include(p); writeln('Lista cu cel inclus la inceputul listei'); afisare(p);
eminenti(p,u); writeln('Lista celor cu 9'); afisare(u);
exclude(p,n); writeln('Lista dupa exmatriculare este'); afisare(p);
exclude1(p,n,q); writeln('Lista dupa excludere este'); afisare(p);
end.

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