

(*
Title : PRInputP.Pas
Main : PackReda.Pas
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System : Borland Pascal 7.0,
Stony Brook Pascal+ 6.13i,
Turbo Power Professional 5.20,
B-Tree Filer 5.40

*)

unit prInputP;

{ \$F+, I-, O+ }

{ .. det gtr ungef,,r dubbelt st fort med \$R- }

interface

uses

TPcrt, filer, TPstring, TPedit, TPentry, Tppick,
graph,

Esdtypes, GloDefs, ESmall, ETider, EScreen,
EError, EPrinter, EConsol, Efiler, Ebuild, Emousex,

prDefs, prMisc, prFilerI, prFilerY, prFilerP, prPick, prEntry;

procedure ErasePackets;

procedure PacketErase;

procedure PacketReg(add: boolean);

implementation

Const

pcl= 1; pln= 13; pwd= 80; phg= 11; pcmdix= 13;

ncl= 1; nln= 3; nwd= 80; nhg= 21;

nnixdeln= 4; ncmdix= (nhg- 3)* nnixdeln;

xw= 40; yl= 80; zh= 80;

Type

scrPackArr= **record**

rec: **Array**[1..nhg- 3] **Of** longint;

nmn: **Array**[1..nhg- 3] **Of** Strng24;

nn: **Array**[1..nhg- 3] **Of** integer;

end;

SytterArr= **Array**[1..mxYtterKartong] **Of** **record**

rec: longint;

vol: real;

end;

PinnerArr= ^innerArr;

innerArr= **Array**[1..mxInnerkartong] **Of** **record**

box: PaketRec;

nn: integer;

end;

PspaceArr= ^spaceArr;

spaceArr= **Array**[1..zh, 1..yl, 1..(xw Div 4)] **Of** byte;

vviType= **Array**[1..6] **Of** integer;

Var

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tmpScrPack, scrPack: ^scrPackArr;
lpspage, pspage: integer;
tmpPacket: ^PacketRec;
tmpPakets1, tmpPakets2: InPaketArr;
adding: boolean;
tmpPakets: InPaketArr;

(*-----*)
procedure ErasePackets;
Var
  kRec, i: longint;
  ii: integer;
begin
  kRec:= EUsedRecs(packetF); If (kRec< 1) Then exit;
  MyMsg:= 'Alla pakets,,ndningarna kommer att raderas Ok!';
  If ErrorMessage(101) Then begin
    MakeCountW(4,''); WriteCountW(2,'Skapar nya pakets,,ndningsfiler');
    ECloseFileBlock(packetF);
    EcreateFileBlock(Concat(Glo^.dataPathText,'\' + paketname),SizeOf(PacketRec),0,dummyIID);
    EOpenFileBlock(packetF,Concat(Glo^.dataPathText,'\' + paketname));
    ZoPacket;
    RestoreCountW;
  end;
end;
(*-----*)
procedure PacketErase;
Var
  krec: longint;
  nn: integer;
begin
  krec:= -1; escesc:= true;
  If PacketPick(' ',false,false,false,nn) Then
    If Not(escesc) Then krec:= GetPacketPickItem(1);
  PacketPickExit;
  If (krec> 0) Then
    DelRecSelectPacket(RcRtn,krec,true);
end;
(*-----*)
procedure aLokalInfo(Var ESR: ESrecord);
begin
  ESRInfo(ESR);
end;
(*-----*)
procedure aLokalInMsg(Var ESR: ESRecord);
Var
  ss: Strng42;
  pp: Strng80;
  ii, kk: integer;
begin
  ss:= ' <F10>= klart, <esc>= avbryt';
  kk:= ESR.CurrentID;
  Case kk Of
    0..ncmdix- 1:
      begin
        kk:= kk Mod nnixdeln;
        If (kk In [255]) Then ss:= ss+ ' <sp>= v,,xlar';
        Case kk Of
          0: pp:= 'V,,lj innerpaket f”r s,,ndningen';
          1: pp:= 'Paketnamn';
        end;
      end;

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    2: pp:= 'Antal av paketet';
    3: pp:= 'Ta bort paketet ur s,,ndningen';
  end;
end;
else pp:= ESRInMsg(ESR);
end;
FastWrite('',nln+ nhg- 4,ncl+ 2,CtrlAttr);
InMsg(pp+ ss);
end;
(*-----*)
procedure aLokalUtMsg(Var ESR: ESRecord);
Var
  kk, ii: integer;
  rr: float;
  ch: char;
begin
  kk:= ESR.CurrentID;
  Case kk Of
    0..ncmdix- 1:
      begin
        ii:= Succ(kk Div nnixdeln);
        kk:= (kk Mod nnixdeln);
        Case kk Of
          0: ;
          1: ;
          2: ;
          3: ;
        end;
      end;
    else ESRUtMsg(ESR);
  end;
  FastWrite('',nln+ nhg- 4,ncl+ 2,CtrlAttr);
end;
(*-----*)
function aValidateLokal(Var ESR: ESrecord; Var ff: word): boolean;
Var
  bb: boolean;
begin
  bb:= false;
  bb:= Not(bb);
  aValidateLokal:= bb;
end;
(*-----*)
procedure PacketCount(sgn: integer);
Var
  ii, jj, nn: integer;
  li: longint;
  Exst, FileEnd: boolean;
  rr: real;
  tmpnn: longint;
  sorta: Array[1..mxInPaket] Of real;
begin
  MakeCountW(4,'');
  WriteCountW(2,'V,,nta! Ordnar r,,knare..');
  FillChar(sorta,SizeOf(sorta),#0);
  nn:= 0; rr:= 0.0; ii:= 0; jj:= 0;
  Repeat
    Inc(ii); li:= Packet.pakets[ii].rec;
    If (li> 0) Then begin

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jj:= ii;
nn:= nn+ Packet.pakets[ii].nn;
FixtSelectInner(RcRtn,li,Exst,FileEnd);
WriteCountW(3,'Antal:'+ RightNumbStr(ii,4)+
              '['+ RightNumbStr(mxInPaket,4)+ ']');
If Exst Then begin
    rr:= rr+ Inner.box.volume* Packet.pakets[ii].nn;
    sorta[ii]:= Inner.Box.volume;
end;
end;
Until (ii>= mxInPaket);
Packet.npakets:= Packet.npakets+ sgn* nn;
Packet.innervolume:= Packet.innervolume+ sgn* rr;
nn:= jj;
If (sgn= +1) And (nn> 0) Then begin
    WriteCountW(2,'V,,nta! Sorterar i ordning!');
    For ii:= 1 To Pred(nn) Do begin
        WriteCountW(3,'Antal:'+ RightNumbStr(ii,4)+
                    '['+ RightNumbStr(nn,4)+ ']');
        For jj:= Succ(ii) To nn Do begin
            If (sorta[ii]<= sorta[jj]) Then begin
                rr:= sorta[ii]; sorta[ii]:= sorta[jj]; sorta[jj]:= rr;
                li:= Packet.pakets[ii].rec;
                Packet.pakets[ii].rec:= Packet.pakets[jj].rec;
                Packet.pakets[jj].rec:= li;
                tmpnn:= Packet.pakets[ii].nn;
                Packet.pakets[ii].nn:= Packet.pakets[jj].nn;
                Packet.pakets[jj].nn:= tmpnn;
            end;
        end;
    end;
    tmpPakets2:= Packet.pakets;
end;
RestoreCountW;
end;
(*-----*)
procedure aReSetLokalPage;
Var
    changed: boolean;
    ct: CompareType;
    ii, kk: integer;
begin
    ct:= CompStruct(tmpScrPack,scrPack,SizeOf(scrPack));
    changed:= (ct <> equal);
    If changed Then begin
        ii:= (Pred(lpspage)* (nhg- 3)); kk:= 0;
        Repeat
            Inc(ii); Inc(kk);
            If (ii<= mxInPaket) Then begin
                Packet.pakets[ii].rec:= scrPack^.rec[kk];
                Packet.pakets[ii].nn:= scrPack^.nn[kk];
            end;
        Until (kk>= nhg- 3);
    end;
    lspage:= pspage; tmpScrPack^:= scrPack^;
end;
(*-----*)
procedure aSetLokalPage;
Var

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ii, kk: integer;
is, fe: boolean;
li: longint;
begin
ii:= (Pred(pspage)* (nhg- 3)); kk:= 0;
Repeat
  Inc(ii); Inc(kk);
  If (ii<= mxInPaket) Then
    scrPack^.rec[kk]:= Packet.pakets[ii].rec;
  is:= false;
  li:= scrPack^.rec[kk];
  If (li> 0) Then
    FixtSelectInner(RcRtn,li,is,fe)
  else is:= false;
  If Not(is) Then ZoInner;
  scrPack^.nmn[kk]:= Inner.Lnr+ ' '+ Inner.pnamn;
  scrPack^.rec[kk]:= innern[1];
  scrPack^.nn[kk]:= Packet.pakets[ii].nn;
Until (kk>= nhg- 3);
tmpScrPack^:= scrPack^; lpspage:= pspage;
end;
(*-----*)
{$V-}
procedure aSetLokalESR(Var ESR: ESrecord);
Var
  kk, jj, ii, y, x: integer;
begin
ii:= 0; y:= nln; jj:= 0;
Repeat
  Inc(jj); Inc(y);
  AddNestedField(ESR, ',y,ncl+ 3,'X',y,ncl+ 3,1,ii);
  Inc(ii);
  SetProtection(On);
  AddStringField(ESR, ',y,ncl+ 7,CharStr('X',Pred(SizeOf(scrPack^.nmn[jj]))),
    y,ncl+ 7,Pred(SizeOf(scrPack^.nmn[jj])),ii,nil,scrPack^.nmn[jj]);
  SetProtection(Off);
  Inc(ii);
  SetNumeric(On);
  AddIntField(ESR, ',y,ncl+ 33,CharStr('9',4),
    y,ncl+ 33,ii,0,9999,scrPack^.nn[jj]);
  SetNumeric(Off);
  Inc(ii);
  AddNestedField(ESR, ',y,ncl+ 40,'X',y,ncl+ 40,1,ii);
Until (jj>= nhg- 3);
end;
{$V+}
(*-----*)
procedure aLokalReg;
Var
  i, j, kk, ii, npages, antal: integer;
  ff: word;
  rr: float;
  krec, trec, ttrec: longint;
  ExitCmd: EStype;
  ESR: ESRecord;
  ESRi: ESRInitRec;
  alla, vv, Exst, FileEnd: boolean;
  nocmds: CommandSet;
  first: boolean;

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begin
If Not(HeapMemOk(SizeOf(ScrPackArr)* 2)) Then begin
  MyMsg:= 'Minnet r,,cker inte f"r variabler';
  If ErrorMessage(1) Then;
  exit;
end;
New(ScrPack); New(tmpScrPack);
first:= true; pspage:= 1; lpspage:= -1;
npages:= (mxInPaket Div (nhg- 3));
With ESRi Do begin
  cmix:= ncmdix;
  cl:= ncl;
  ln:= nln;
  wd:= nwd;
  hg:= nhg;
  editw:= false;
  Error:= nil;
  InMsg:= @aLokalInMsg;
  UtMsg:= @aLokalUtMsg;
  InfoMsg:= @aLokalInfo;
  SetESRuser:= aSetLokalESR;
end;
PacketCount(-1);
nocmds:= [ESuser9];
SetESR('innerpaket',ESR,ESRi,nocmds);
tmpPakets2:= Packet.pakets; ff:= 0; aSetLokalPage;
Repeat
  FastWrite(RightNumbStr(pspage,4)+
    '['+ RightNumbStr(npages,4)+ ']'
    ,nln+ nhg- 2,ncl+ nwd- 11,CtrlAttr);
Repeat
  exitcmd:= EditScreen(ESR,ff,false);
  ff:= ESR.currentID;
  If (exitcmd = ESnested) Then begin
    Case ff Of
      ncmdix+ 0: exitcmd:= ESDone;
      ncmdix+ 1: exitcmd:= ESquit;
      ncmdix+ 2: exitcmd:= ESnextRec;
      ncmdix+ 3: exitcmd:= ESprevRec;
    end;
  end;
  If (exitcmd <> ESquit) Then begin
    aLokalUtMsg(ESR);
    Case exitcmd Of
      ESnested:
        begin
          kk:= (ff Mod nnixdeln);
          ii:= Succ(ff Div nnixdeln);
          Case kk Of
            0:
              begin
                aReSetLokalPage;
                aSetLokalPage;
                alla:= InnerPick('',true,false,false,antal);
                If Not(escesc) And (antal> 0) Then begin
                  j:= 0;
                  Repeat
                    Inc(j);
                    trec:= GetInnerPickItem(j);

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If (trec > 0) Then begin
  Exst := true; If Not(Exst) Then ZoInner;
  If (ii > (nhg - 3)) Then begin
    aReSetLokalPage;
    If (pspage < npages) Then
      Inc(pspage)
    else pspage := 1;
    ii := 1;
    aSetLokalPage;
    trec := GetInnerPickItem(j);
  end;
  scrPack^.nmn[ii] := Inner.Lnr + ' ' + Inner.pnamn;
  scrPack^.rec[ii] := trec;
  scrPack^.nn[ii] := 1;
  For i := ff To ff + Pred(nnixdeln) Do
    DrawField(ESR, i);
  ff := Pred(ii) * nnixdeln; Inc(ii);
end;
Until (trec < 0);
end;
  InnerPickExit;
  aReSetLokalPage;
  aSetLokalPage;
  escesc := false;
end;
3:
begin
  scrPack^.nmn[ii] := '';
  scrPack^.rec[ii] := 0;
  scrPack^.nn[ii] := 0;
  For i := ff To Pred(nnixdeln) Do DrawField(ESR, i);
  escesc := false;
end;
end;
end;
EShelp: ;
ESuser0, ESDone: ;
ESnextRec:
If (pspage < npages) Then
  Inc(pspage)
else pspage := 1;
ESprevRec:
If (pspage > 1) Then
  Dec(pspage)
else pspage := npages;
end;
end;
If (exitcmd In [ESDone, ESuser0, ESnextRec, ESprevRec]) Then vv := aValidateLokal(ESR, ff)
Until ((exitcmd In [ESDone, ESuser0, ESnextRec, ESprevRec]) And vv) Or (exitcmd In [ESquit])
If (exitcmd In [ESquit]) Then begin
  Packet.pakets := tmpPakets2;
end else begin
  aReSetLokalPage;
  aSetLokalPage;
end;
Until (exitcmd In [ESquit, ESDone, ESuser0]) Or escesc;
ESRExit(ESR);
Dispose(tmpscrPack); Dispose(scrPack);
PacketCount(+1);

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end;
(*-----*)
procedure LokalInfo(Var ESR: ESrecord);
Var
  wa: byte;
begin
  wa:= WriteAttr;
  FastWrite('Innerpaket:',pln+ 1,pcl+ 22,wa);
  FastWrite('antal:',pln+ 2,pcl+ 22,wa);
  FastWrite('Volym (L):',pln+ 3,pcl+ 22,wa);
  FastWrite('Ytterpaket:',pln+ 5,pcl+ 2,wa);
  FastWrite('Volym (L):',pln+ 6,pcl+ 55,wa);
  FastWrite('Luft (L):',pln+ 7,pcl+ 55,wa);
  ESRInfo(ESR);
end;
(*-----*)
procedure LokalInMsg(Var ESR: ESRecord);
Var
  ss: Strng42;
  pp: Strng80;
  ii, kk: integer;
begin
  ss:= ' <F10>= klart, <esc>= avbryt';
  If (ESR.CurrentID In [255]) Then ss:= ss+ ' <sp>= v,,xlar';
  Case ESR.CurrentID Of
    0: pp:= 'L”pande nummer.';
    1: pp:= 'Packningsdatum (++++-mm-dd)';
    2:
      begin
        tmpPakets:= Packet.pakets;
        pp:= 'V,,lj ingtende paketstorlekar';
      end;
    3: pp:= 'Mottagare, namn';
    4: pp:= 'Mottagare, adress';
    5: pp:= 'Mottagare, adress';
    6: pp:= 'Mottagare, adressort';
    7: pp:= 'Totalt antal paket';
    8: pp:= 'Total volym av innerpaketen (L)';
    9: pp:= 'L”pande nummer';
    10: pp:= 'Ytterpaketets namn';
    11: pp:= 'Ytterpaketets volym (L)';
    12: pp:= 'Luftvolymen i ytterpaketet (L)';
  else pp:= ESRInMsg(ESR);
  end;
  FastWrite('',pln+ phg- 4,pcl+ 2,CtrlAttr);
  InMsg(pp+ ss);
end;
(*-----*)
procedure LokalUtMsg(Var ESR: ESRecord);
Var
  pp: IsamKeyStr;
  rr: real;
  k, f: integer;
begin
  k:= ESR.CurrentId;
  Case k Of
    0: ;
    2:
      begin

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    If (CompStruct(tmpPakets,Packet.pakets,SizeOf(InpaketArr)) <> equal) Then begin
        ZoYtter;
        Packet.ytterrec:= 0;
        Packet.airvolume:= 0;
        DrawField(ESR,7); DrawField(ESR,8);
        For f:= 10 To 13 Do DrawField(ESR,f);
    end;
end;
else ESRUtMsg(ESR);
end;
FastWrite('',pln+ phg- 4,pcl+ 2,CtrlAttr);
end;
(*-----*)
function ValidateLokal(Var ESR: ESrecord; Var ff: word): boolean;
Var
    bb: boolean;
begin
    bb:= false;
    bb:= Not(bb);
    ValidateLokal:= bb;
end;
(*-----*)
function tryit(nn, vvx: integer; vvi: vviType; inn: PinnerArr): boolean;
Var
    doneok, done, found, break: boolean;
    i, j, mm, xbyte, xby1, xb1, xb2, xbit1, xbit2: integer;
    z, y, x, xx, yy, zz, zzi: integer;
    ll, ww, hh: real;
    li0, wi0, hi0: integer;
    vv, uu, li, wi, hi: integer;
    space: PspaceArr;
    bb: byte;
    ch: char;
begin
    doneok:= true; break:= false;
    If HeapMemOk(SizeOf(spaceArr)) Then begin
        New(space);
        FillChar(space^,SizeOf(space^),#0);
        doneok:= false;
        ll:= Ytter.box.len; ll:= ll / yl;
        ww:= Ytter.box.width; ww:= ww / xw;
        hh:= Ytter.box.height; hh:= hh / zh;
        (*prov    MakeCountW(9); *)
        WriteCountW(9,'<space> stegning, <cr> k”r, <esc> avbryt');
        WriteCountW(3,'Skala'+
            ' h”jd='+ RightRealStr(hh,4)+
            ' l,,ngd='+ RightRealStr(ll,4)+
            ' bredd='+ RightRealStr(ww,4));
        i:= 0; done:= true; ch:= 'p'; uu:= 0;
        Repeat
            Inc(i); mm:= inn^[i].nn; j:= 0; zzi:= 0;
            Repeat
                Inc(j); Inc(uu);
                vv:= 0; found:= false;
                Repeat
                    Inc(vv);
                    WriteCountW(4,'GPass '+ RightNumbStr(vvx,1)+ ' [6]'+
                        ' LPass '+ RightNumbStr(vv,1)+ ' [6]'+
                        ' Packar kartong '+ RightNumbStr(i,3)+

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        ' '+ RightNumbStr(j,3)+
        ' ['+ RightNumbStr(mm,3)+ ' ]');
Case vvi[vv] Of
1:
begin
    li0:= Trunc(inn^[i].box.len/ ll);
    wi0:= Trunc(inn^[i].box.width/ ww);
    hi0:= Trunc(inn^[i].box.height/ hh);
end;
2:
begin
    li0:= Trunc(inn^[i].box.len/ ll);
    hi0:= Trunc(inn^[i].box.width/ hh);
    wi0:= Trunc(inn^[i].box.height/ ww);
end;
3:
begin
    wi0:= Trunc(inn^[i].box.len/ ww);
    hi0:= Trunc(inn^[i].box.width/ hh);
    li0:= Trunc(inn^[i].box.height/ ll);
end;
4:
begin
    wi0:= Trunc(inn^[i].box.len/ ww);
    li0:= Trunc(inn^[i].box.width/ ll);
    hi0:= Trunc(inn^[i].box.height/ hh);
end;
5:
begin
    hi0:= Trunc(inn^[i].box.len/ hh);
    li0:= Trunc(inn^[i].box.width/ ll);
    wi0:= Trunc(inn^[i].box.height/ ww);
end;
6:
begin
    hi0:= Trunc(inn^[i].box.len/ hh);
    wi0:= Trunc(inn^[i].box.width/ ww);
    li0:= Trunc(inn^[i].box.height/ ll);
end;
end;
WriteCountW(5,'Skala'+
    ' h"jd='+ RightNumbStr(hi0,4)+
    ' l,,ngd='+ RightNumbStr(li0,4)+
    ' bredd='+ RightNumbStr(wi0,4));
(* finn ledig volym i spacearray *)
z:= zzi;
Repeat
Inc(z); y:= 0;
Repeat
Inc(y); x:= 0;
Repeat
Inc(x);
xbyte:= Succ(Pred(x) Div 4);
xbit1:= 1 shl ((Pred(x) Mod 4)* 2);
xbit1:= xbit1+ xbit1 shl 1;
If ((space^[z,y,xbyte] And xbit1)= 0) Then begin
WriteCountW(6,'utg†ngspunkt'+
    ' '+ RightNumbStr(z,2)+
    ' ['+ RightNumbStr(zh,2)+

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    ']' '+' RightNumbStr(y,2)+
    '[' '+' RightNumbStr(y1,2)+
    ']' '+' RightNumbStr(x,2)+
    '[' '+' RightNumbStr(xw,2)+ ']);
hi:= Pred(z)+ hi0; If (hi> zh) Then z:= zh;
li:= Pred(y)+ li0; If (li> y1) Then y:= y1;
wi:= Pred(x)+ wi0; If (wi> xw) Then x:= xw;
If (hi<= zh) And (li<= y1) And (wi<= xw) Then begin
  WriteCountW(7,'upptaget? '+'
    '+' RightNumbStr(z,2)+
    '->'+' RightNumbStr(hi,2)+
    '+' RightNumbStr(y,2)+
    '->'+' RightNumbStr(li,2)+
    '+' RightNumbStr(x,2)+
    '->'+' RightNumbStr(wi,2));
zz:= Pred(z); found:= true;
Repeat
  Inc(zz); yy:= Pred(y);
  Repeat
    Inc(yy); xx:= Pred(x);
    Repeat
      Inc(xx);
      xbyte:= Succ(Pred(xx) Div 4);
      xbit1:= 1 shl ((Pred(xx) Mod 4)* 2);
      xbit1:= xbit1+ xbit1 shl 1;
      found:= found And
        ((space^[zz,yy,xbyte] And xbit1)= 0);
    Until (xx>= wi) Or Not(found);
  Until (yy>= li) Or Not(found);
Until (zz>= hi) Or Not(found);
If found Then begin
  y:= Succ(li); li:= y- li0;
  x:= Succ(wi); wi:= x- wi0;
  z:= Succ(hi); hi:= z- hi0;
  WriteCountW(8,'upptaget! '+'
    '+' RightNumbStr(Pred(z),2)+
    '<-'+' RightNumbStr(hi,2)+
    '+' RightNumbStr(Pred(y),2)+
    '<-'+' RightNumbStr(li,2)+
    '+' RightNumbStr(Pred(x),2)+
    '<-'+' RightNumbStr(wi,2));

zz:= z;
Repeat
  Dec(zz); yy:= y;
  Repeat
    Dec(yy); xx:= x;
    Repeat
      Dec(xx);
      xbyte:= Succ(Pred(xx) Div 4);
      xbit1:= 1 shl ((Pred(xx) Mod 4)* 2);
      xbit2:= xbit1 shl 1;
      Case (uu Mod 3) Of
        0: xbit1:= xbit1+ xbit2;
        1: xbit1:= xbit1;
        2: xbit1:= xbit2;
      end;
      space^[zz,yy,xbyte]:=
        space^[zz,yy,xbyte] Or xbit1;
    Until (xx<= wi);

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        Until (yy<= li);
        Until (zz<= hi);
        zzi:= Pred(hi);
    end;
end;
end;
    Until (x>= xw) Or found;
    Until (y>= yl) Or found;
    Until (z>= zh) Or found;
    If Not(found) Then zzi:= 0;
Until (vv>= 6) Or found;
done:= done And found;
If KeyPressed Or (ch= ' ') Then begin
    ch:= ReadKey;
    break:= (ch= #27);
end;
    Until (j>= mm) Or Not(done) Or break;
Until (i>= nn) Or Not(done) Or break;
done:= done And Not(break);
ReadClockDate; TimerStart(1);

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If done Then begin

(* grafikprov *)

pushScreen;

z:= detect; x:=detect;

Opengraf(z,x);

z:= 1;

hh:= (GetMaxY / 160);

ww:= (GetMaxX / 120);

While (z<= zh) Do begin

For y:= 1 To yl Do begin

For x:= 1 To xw Do begin

xbyte:= Succ(Pred(x) Div 4);

xbit1:= 1 shl ((Pred(x) Mod 4)* 2);

xbit2:= xbit1 shl 1;

xx:= x* Trunc(ww)+ y* Trunc(ww);

yy:= z* Trunc(hh)+ y* Trunc(hh);

yy:= GetMaxY- yy;

zz:= 0;

If (y= yl) Or (y= 1) Then zz:= 1;

If (x= xw) Or (x= 1) Then zz:= 2;

If (z= zh) Or (z= 1) Then zz:= 3;

If (zz> 0) Then PutPixel(xx+ zz,yy+ zz,zz);

zz:= 0;

If (z< zh) Or (y< yl) Then begin

i:= xbit1+ xbit2;

j:= (space^[z,y,xbyte] And i);

If (z< zh) Then begin

zzi:= (space^[Succ(z),y,xbyte] And i);

If (j <> zzi) Then zz:= 4;

end;

If (y< yl) Then begin

zzi:= (space^[z,Succ(y),xbyte] And i);

If (j <> zzi) Then zz:= 5;

end;

end;

If (zz> 0) Then PutPixel(xx+ zz,yy+ zz,zz);

zz:= 0;

If ((space^[z,y,xbyte] And xbit1)= xbit1) And

```

    ((space^[z,y,xbyte] And xbit2)= xbit2) Then
      zz:= 7 else
    If ((space^[z,y,xbyte] And xbit1)= xbit1) Then
      zz:= 13 else
    If ((space^[z,y,xbyte] And xbit2)= xbit2) Then
      zz:= 11;
    If (zz> 0) Then PutPixel(xx,yy,zz);
  end;
end;
Inc(z);
end;
Gmenu('','');
Closegraf;
popScreen;
(*
z:= 1;
While (z<= zh) Do begin
  Writeln(Lst, 'H"jdTv,,rsnitt=',z:3, ' av 80');
  For y:= 1 To yl Do begin
    For x:= 1 To xw Do begin
      xbyte:= Succ(Pred(x) Div 4);
      xbit1:= 1 shl ((Pred(x) Mod 4)* 2);
      xbit2:= xbit1 shl 1;
      If ((space^[z,y,xbyte] And xbit1)= xbit1) And
        ((space^[z,y,xbyte] And xbit2)= xbit2) Then
        Write(Lst, '3') else
      If ((space^[z,y,xbyte] And xbit1)= xbit1) Then
        Write(Lst, '1') else
      If ((space^[z,y,xbyte] And xbit2)= xbit2) Then
        Write(Lst, '2') else Write(Lst, '0');
    end;
    Writeln(Lst);
  end;
  Writeln(Lst); Writeln(Lst);
  Inc(z,10);
end;
*)
end;
(* endprov *)

doneok:= done;
Dispose(space);
end else begin
  MyMsg:= 'Minnet slut vid tilldelning av variabler! Tillr,,cklig koll ej utf"rd!';
  If ErrorMsg(1) Then;
end;
tryit:= doneok;
end;
(*-----*)
procedure FindBestMatch;
Var
  yrec, li: longint;
  vv, tmpnn, kk, x, y, mm, ii, nn, jj: integer;
  rra, rri, rr: real;
  Exst, done, FileEnd: boolean;
  inn: PInnerArr;
  ytt: SYtterArr;
  vvi: vviType;

```

```

begin
If Not(HeapMemOk(SizeOf(InnerArr))) Then begin
  MyMsg:= 'Minnesbrist vid variabeltilldelning!';
  If ErrorMsg(1) Then;
  exit;
end;
New(inn);
FillChar(inn^,SizeOf(inn^),#0);
FillChar(ytt,SizeOf(ytt),#0);
ReadClockDate; TimerStart(1);
MakeCountW(10,'');
WriteCountW(2,'V,,nta! Ber,,knar innerkartonger..');
nn:= 0; rr:= 0.0; ii:= 0; jj:= 0; kk:= 0; yrec:= 0;
Repeat
  Inc(ii); li:= Packet.pakets[ii].rec;
  If (li> 0) Then begin
    jj:= ii;
    nn:= nn+ Packet.pakets[ii].nn;
    FixtSelectInner(RcRtn,li,Exst,FileEnd);
    WriteCountW(3,'Antal:'+ RightNumbStr(ii,4)+
      '['+ RightNumbStr(mxInPaket,4)+ ']');
    If Exst Then begin
      rr:= rr+ Inner.box.volume* Packet.pakets[ii].nn;
      Inc(kk);
      inn^[kk].box:= Paket.Box;
      inn^[kk].box.positionnn:= integer(li);
      inn^[kk].nn:= Packet.pakets[ii].nn;
    end;
  end;
end;
Until (ii>= mxInPaket);
Packet.npakets:= nn;
Packet.innervolume:= rr; rri:= rr;
rr:= (rr / nn);
nn:= jj; rra:= 999999999.0; yrec:= 0; mm:= 0;
If (nn> 0) Then begin
  WriteCountW(2,'V,,nta! S”ker ytterkartong..');
  ii:= 0; nn:= Pred(EFileLen(ytterF));
  Repeat
    Inc(ii); li:= ii;
    If (li> 0) Then begin
      FixtSelectYtter(RcRtn,li,Exst,FileEnd);
      If Exst Then begin
        WriteCountW(3,'Antal:'+ RightNumbStr(ii,4)+
          '['+ RightNumbStr(nn,4)+ ']');
        If (rri<= Ytter.box.volume) Then begin
          Inc(mm);
          ytt[mm].rec:= li;
          ytt[mm].vol:= Ytter.box.volume;
          rr:= Ytter.box.volume- rri;
          WriteCountW(4,'Funnen '+ Ytter.Lnr+ ' "'+ Ytter.pnamn+ "''+
            ' luft '+ RightRealStr(rr,4));
        end;
      end;
    end;
  end;
end;
Until FileEnd;
If (mm> 0) Then begin
  For x:= 1 To Pred(mm) Do begin
    For y:= Succ(x) To mm Do begin
      If (ytt[x].vol>= ytt[y].vol) Then begin

```

```
li:= ytt[x].rec; ytt[x].rec:= ytt[y].rec; ytt[y].rec:= li;  
rr:= ytt[x].vol; ytt[x].vol:= ytt[y].vol; ytt[y].vol:= rr;
```

```
end;
```

```
end;
```

```
end;
```

```
end;
```

```
end;  
If (mm > 0) Then begin
```

```
ii:= 0;
```

```
Repeat
```

```
Inc(ii); yrec:= ytt[ii].rec;
```

```
ZoYtter; done:= false;
```

```
If (yrec > 0) Then begin
```

```
FixtSelectYtter(RcRtn,yrec,Exst,FileEnd);
```

```
If Exst Then begin
```

```
rra:= Ytter.box.volume- rri;
```

```
Packet.ytterrec:= yrec;
```

```
Packet.airvolume:= rra;
```

```
WriteCountW(2,'St"rre ytter '+ RightNumbStr(ii,3)+  
' ['+ RightNumbStr(mm,3)+ ']' +  
' PackProv "'+ Ytter.pnamn+ "''+  
' luft '+ RightRealStr(rra,4));
```

```
vv:= 0;
```

```
Repeat
```

```
Inc(vv);
```

```
Case vv Of
```

```
1:
```

```
begin
```

```
vvi[1]:= 1; vvi[2]:= 2; vvi[3]:= 3;
```

```
vvi[4]:= 4; vvi[5]:= 5; vvi[6]:= 6;
```

```
end;
```

```
2:
```

```
begin
```

```
vvi[1]:= 2; vvi[2]:= 1; vvi[3]:= 3;
```

```
vvi[4]:= 5; vvi[5]:= 4; vvi[6]:= 6;
```

```
end;
```

```
3:
```

```
begin
```

```
vvi[1]:= 3; vvi[2]:= 1; vvi[3]:= 2;
```

```
vvi[4]:= 6; vvi[5]:= 4; vvi[6]:= 5;
```

```
end;
```

```
4:
```

```
begin
```

```
vvi[1]:= 3; vvi[2]:= 2; vvi[3]:= 1;
```

```
vvi[4]:= 6; vvi[5]:= 5; vvi[6]:= 4;
```

```
end;
```

```
5:
```

```
begin
```

```
vvi[1]:= 1; vvi[2]:= 3; vvi[3]:= 2;
```

```
vvi[4]:= 4; vvi[5]:= 6; vvi[6]:= 5;
```

```
end;
```

```
6:
```

```
begin
```

```
vvi[1]:= 2; vvi[2]:= 3; vvi[3]:= 1;
```

```
vvi[4]:= 5; vvi[5]:= 6; vvi[6]:= 4;
```

```
end;
```

```
end;
```

```
done:= tryit(kk,vv,vvi,inn);
```

```
Until done Or (vv >= 6);
```

```

    end;
    end;
    If Not(done) Then yrec:= 0;
Until (ii>= mm) Or done;
end;
If (yrec< 1) Then begin
    MyMsg:= 'Kan ej finna n†gon ytterkartong stor nog i registret!';
    If ErrorMsg(1) Then;
        ZoYtter;
        Packet.ytterrec:= 0;
        Packet.airvolume:= 0;
    end else begin
        MyMsg:= TimerLapS(mmmss,1);
        MyMsg:= 'Packtiden= '+ MyMsg;
        If ErrorMsg(1) Then;
            end;
            RestoreCountW;
            Dispose(inn);
end;
(*-----*)
{$V-}
procedure SetLokalESR(Var ESR: ESrecord);
Var
    kk, ii, y, x: integer;
begin
    ii:= 0; y:= pln+ 1;
    SetProtection(On);
    AddStringField(ESR, '',y,pcl+ 2,CharStr('9',Pred(SizeOf(Packet.Lnr))),
        y,pcl+ 2,Pred(SizeOf(Packet.Lnr)),ii,nil,Packet.Lnr);
    SetProtection(Off);
    Inc(ii);
    AddStringField(ESR, '',y,pcl+ 10,CharStr('X',Pred(SizeOf(Packet.Date))),
        y,pcl+ 10,Pred(SizeOf(Packet.Date)),ii,nil,Packet.Date);
    Inc(ii); y:= y+ 2;
    AddNestedField(ESR,'Paket',y,pcl+ 3,'XXXXX',y,pcl+ 3,5,ii);
    y:= pln;
    For kk:= 1 To 4 Do begin
        Inc(ii); Inc(y);
        AddStringField(ESR, '',y,pcl+ 47,CharStr('X',Pred(SizeOf(Packet.adr[kk]))),
            y,pcl+ 47,Pred(SizeOf(Packet.adr[kk])),ii,nil,Packet.adr[kk]);
    end;
    Inc(ii); y:= pln+ 2;
    SetProtection(On);
    SetNumeric(On);
    AddIntField(ESR, '',y,pcl+ 39,CharStr('9',4),
        y,pcl+ 39,ii,0,9999,Packet.npakets);
    Inc(ii); Inc(y);
    AddRealField(ESR, '',y,pcl+ 34,'#####',
        y,pcl+ 34,ii,1,1,0,Packet.innervolume);
    SetNumeric(Off);
    Inc(ii); y:= pln+ 6;
    AddStringField(ESR, '',y,pcl+ 13,CharStr('X',Pred(SizeOf(Ytter.Lnr))),
        y,pcl+ 3,Pred(SizeOf(Ytter.Lnr)),ii,nil,Ytter.Lnr);
    Inc(ii);
    AddStringField(ESR, '',y,pcl+ 20,CharStr('X',Pred(SizeOf(Ytter.pnamn))),
        y,pcl+ 20,Pred(SizeOf(Ytter.pnamn)),ii,nil,Ytter.pnamn);
    Inc(ii);
    AddRealField(ESR, '',y,pcl+ 65,'#####',
        y,pcl+ 65,ii,1,1,0,Ytter.box.volume);

```



```

Inc(ii); Inc(y);
AddRealField(ESR, '', y, pcl+ 65, '#####',
             y, pcl+ 65, ii, 1, 1, 0, Packet.airvolume);
SetProtection(Off);
end;
{$V+}
(*-----*)
procedure PacketReg(add: boolean);
Var
  i, j, k, antal, f: integer;
  ff: word;
  krec, trec, ttrec: longint;
  ExitCmd: EStype;
  ESR: ESRecord;
  ESri: ESriInitRec;
  vv, Exst, FileEnd, nextprev: boolean;
  nocmds: CommandSet;
  first: boolean;
  tmpPacket: ^PacketRec;
begin
If Not(HeapMemOk(StoF(PacketRec))) Then begin
  MyMsg:= 'Minnet r,,cker inte f''r variabler';
  If ErrorMessage(1) Then;
  exit;
end;
New(tmpPacket);
adding:= add; first:= true; nextprev:= false;
If Not(add) And (EUsedRecs(packetF)= 0) Then begin
  MyMsg:= 'Inga s,,ndningar i registret f''r modifiering!';
  If ErrorMessage(1) Then;
  exit;
end;
ZoPacket; ZoYtter; ZoInner;
With ESri Do begin
  cmix:= pcmdix;
  cl:= pcl;
  ln:= pln;
  wd:= pwd;
  hg:= phg;
  editw:= false;
  Error:= nil;
  InMsg:= @LokalInMsg;
  UtMsg:= @LokalUtMsg;
  InfoMsg:= @LokalInfo;
  SetESRuser:= SetLokalESR;
end;
nocmds:= [];
If add Then nocmds:= nocmds+ [ESnextRec, ESprevRec];
SetESR('s,,ndningsregister', ESR, ESri, nocmds);
Repeat
  If add Then begin
    If (EUsedRecs(packetF)>= mxPackets- 1) Then begin
      MyMsg:= 'Maxantalet uppn'tt kan ej addera s,,ndning!';
      If ErrorMessage(1) Then ;
      escesc:= true;
    end else begin
      ZoPacket;
      Packet.Lnr:= NumbStr(EFileLen(packetF), Pred(StoF(Packet.Lnr)));
      krec:= 0; escesc:= false;

```

```

end;
end else begin
  If nextprev Then begin
    krec:= GetNextPrev(packetF,nextprev,krec,exitcmd,Packet);
  end else begin
    krec:= -1; escesc:= true;
    If PacketPick(' ',false,false,false,antal) Then
      If Not(escesc) Then krec:= GetPacketPickItem(1);
    PacketPickExit;
  end;
  If (krec > 0) Then
    DelRecSelectPacket(RcRtn,krec,false);
  ZoYtter;
  If (Packet.ytterrec > 0) Then begin
    FixtSelectYtter(RcRtn,Packet.ytterrec,Exst,FileEnd);
    If Not(Exst) Then ZoYtter;
  end;
end;
end;
If Not(escesc) And (krec >= 0) Then begin
  tmpPacket^:= Packet; tmpPakets1:= Packet.pakets;
  ff:= 1;
  FastWrite(RightNumbStr(kRec,4)+
    '['+ RightNumbStr(EUsedRecs(packetF),4)+ ']'
    ,pln+ phg- 2,pcl+ pwd- 11,CtrlAttr);
  Repeat
    exitcmd:= EditScreen(ESR,ff,false);
    ff:= ESR.currentID;
    If (exitcmd = ESnested) Then begin
      Case ff Of
        pcmdix+ 0: exitcmd:= ESdone;
        pcmdix+ 1: exitcmd:= ESquit;
        pcmdix+ 2: exitcmd:= ESnextRec;
        pcmdix+ 3: exitcmd:= ESprevRec;
        pcmdix+ 4: exitcmd:= ESuser9;
      end;
    end;
  end;
  If (exitcmd <> ESquit) Then begin
    Case exitcmd Of
      ESnested:
        Case ff Of
          2:
            begin
              aLokalReg;
              LokalUtMsg(ESR);
            end;
          end;
        ESuser9:
          begin
            FindBestMatch;
            DrawField(ESR,7); DrawField(ESR,8);
            For f:= 10 To 13 Do DrawField(ESR,f);
          end;
        EShelp: ;
        ESuser0, ESdone: ;
      end;
    end;
  nextprev:= (exitcmd In [ESprevRec,ESnextRec]) And Not(adding);
  If (exitcmd In [ESdone,ESuser0]) Or nextprev Then vv:= ValidateLokal(ESR,ff);
  Until (((exitcmd In [ESdone,ESuser0]) Or nextprev) And vv) Or (exitcmd In [ESquit]);

```

```
    If (exitcmd In [ESquit]) Then begin
      Packet:= tmpPacket^;
      Packet.pakets:= tmpPakets1;
    end;
    If (add And Not(exitcmd In [ESquit])) Or Not(add) Then begin
      AddRecSelectPacket(add,krec);
    end;
  end;
end;
Until (exitcmd In [ESquit]) Or escesc;
ESRExit(ESR);
packen[1]:= 0;
Dispose(tmpPacket);
end;
(*=====*)
{$ifdef debug}
begin
  Write('PRINPUTP ');
{$endif}
end.
```