

```

Program halmaz;
Uses Crt;
Const n=30;
Type thalmaz=Array[1..n] of integer;
Var a,b,u,m,k:thalmaz;
    adb,bdb,udb,mdb,kdb:integer;
    f,g:text;

Procedure init;
Begin
  Assign(f,'ahalmaz.txt');
  Assign(g,'bhalmaz.txt');
End;

Procedure beolvasas(var a,b:thalmaz; var adb,bdb:integer);
Begin
  Reset(f);
  Reset(g);

  adb:=0;
  bdb:=0;

  While not(eof(f)) do
  Begin
    adb:=adb+1;
    ReadLn(f,a[adb]);
  End;

  While not(eof(g)) do
  Begin
    bdb:=bdb+1;
    ReadLn(g,b[bdb]);
  End;

  Close(g);
  Close(f);
End;

Procedure kiiras(h:thalmaz; hdb:integer);
var i:integer;
Begin
  For i:=1 to hdb do
  Begin
    Write(h[i],' ');
  End;
End;

Procedure unio(a,b:thalmaz; adb,bdb:integer; var u:thalmaz; var
udb:integer);
var i,j:integer;
Begin

```

```

        udb:=adb;
        For i:=1 to adb do
        Begin
          u[i]:=a[i];
        End;
        For i:=1 to bdb do
        Begin
          j:=1;
          While (u[j]<>b[i]) and (j<=adb) do
          Begin
            j:=j+1;
          End;
          If j>adb then Begin
            udb:=fdb+1;
            u[fdb]:=b[i];
          End;
        End;
      End;

Procedure metszet(a,b:thalmaz;adb,bdb:integer; var m:thalmaz; var
mdb:integer);
var i,j:integer;
Begin
  mdb:=0;
  For i:=1 to bdb do
  Begin
    j:=1;
    While (a[j]<>b[i]) and (j<=adb) do
    Begin
      j:=j+1;
    End;
    If j<=adb then Begin
      mdb:=mdb+1;
      m[mdb]:=b[i];
    End;
  End;
End;

Procedure kulonbseg(a,b:thalmaz;adb,bdb:integer; var k:thalmaz; var
kdb:integer);
var i,j:integer;
Begin
  kdb:=0;
  For i:=1 to adb do
  Begin
    j:=1;
    While (a[i]<>b[j]) and (j<=bdb) do
    Begin
      j:=j+1;
    End;
    If j>bdb then Begin
      kdb:=kdb+1;
    End;
  End;
End;

```

```

        k[kdb]:=a[i];
      End;
End;

BEGIN
  ClrScr;

  init;
  beolvasas(a,b,adb,bdb);

  Write('Az a halmaz elemei: ');
  kiiras(a,adb);

  WriteLn;WriteLn;
  Write('A b halmaz elemei: ');
  kiiras(b,bdb);

  unio(a,b,adb,bdb,u,ldb);

  WriteLn;WriteLn;
  Write('Az unicjuk: ');
  kiiras(u,ldb);

  metszet(a,b,adb,bdb,m,mdb);

  WriteLn;WriteLn;
  Write('A metszetek: ');
  kiiras(m,mdb);

  kulonbseg(a,b,adb,bdb,k,kdb);

  WriteLn;WriteLn;
  Write('A k,t halmaz koll"nbs,ge(a\b): ');
  kiiras(k,kdb);

  kulonbseg(b,a,ldb,adb,k,kdb);

  WriteLn;WriteLn;
  Write('A k,t halmaz koll"nbs,ge(b\ a): ');
  kiiras(k,kdb);

  ReadLn;
END.

```