

```

PROGRAM Congruent;

VAR
  Normal,AbNormal : ^Byte;

FUNCTION AreCongruent(Ptr1,Ptr2 : Pointer) : Boolean;

TYPE
  PtrSplitter =
    RECORD
      PtrOffset,PtrSegment : Word
    END;
  String80 = STRING[80];

BEGIN
  IF LongInt(PtrSplitter(Ptr1).PtrSegment) SHL 4 +
     PtrSplitter(Ptr1).PtrOffset
     =
     LongInt(PtrSplitter(Ptr2).PtrSegment) SHL 4 +
     PtrSplitter(Ptr2).PtrOffset
  THEN AreCongruent := True
  ELSE AreCongruent := False;
END;

BEGIN
  Normal := Ptr($FFFF,$E);
  AbNormal := Ptr($F000,$FFFE);

  Writeln('Below are the referents of two pointers:');
  Writeln(Normal^,' ',AbNormal^);

  { Test the pointers for ordinary equality: }
  IF Normal = AbNormal THEN
    Writeln('Turbo Pascal considers these pointers equal...')
  ELSE
    Writeln('Turbo Pascal considers these pointers unequal...');

  { Now test the pointers for congruence: }
  IF AreCongruent(Normal,AbNormal) THEN
    Writeln('...but they actually point to the same location.')
  ELSE
    Writeln
      ('...and they do in fact point to different locations.');
```

```

END.
1
```