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/***************************************************************************
                          main.cpp  -  description
                             -------------------
    begin                : Thu Oct  9 22:09:33 VET 2003
    copyright            : (C) |YEAR| by Andres Arcia
    email                :
 ***************************************************************************/

/***************************************************************************
 *                                                                         *
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 *                                                                         *
 ***************************************************************************/

#ifdef HAVE_CONFIG_H
#include <config.h>
#endif

#include <iostream.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
  int izq1, der1, alt1;
  int izq2, der2, alt2;

  cout << "Ingrese los valores IZQ1, DER1 y ALT1" << endl;
  cin >> izq1 >> der1 >> alt1;

  cout << "Ingrese los valores IZQ2, DER2 y ALT2" << endl;
  cin >> izq2 >> der2 >> alt2;

  // cambio de coordenadas para que las primeras siempre esten
  // del lado izquierdo.
  if (izq1 > izq2)
    {
      int tmp1 = izq1, tmp2 = der1, tmp3 = alt1;
      izq1 = izq2;
      der1 = der2;
      alt1 = alt2;
      izq2 = tmp1;
      der2 = tmp2;
      alt2 = tmp3;
    }

  // Haciendo referencia al analisis
  // Caso A:
  if (izq1 == izq2 && alt1 < alt2)
    {
      if (der1 > der2)
        cout << izq1 << alt2 << der2-izq2 << -(alt2-alt1) << der1-der2 << -alt1 << endl;
        else if (der1 == der2)
          cout << izq2 << alt2 << der2-izq2 << -alt2 << endl;
            else
          cout << izq2 << alt2 << der2-izq2 << -alt2 << endl;
    }
  else
  // Caso B:
    if (izq1 <= izq2 && alt1 == alt2 && izq2 <= der1)
      {
        if (der1 > der2)
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          cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
          else if (der1 == der2)
            cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
              else
            cout << izq1 << alt1 << der1-izq1+der2-der1 << -alt1 << endl;
      }
  else
  // Caso C:
    if (izq1 == izq2 && alt1 > alt2 && izq2 <= der1)
      {
        if (der1 > der2)
          cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
          else if (der1 == der2)
            cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
              else
            cout << izq1 << alt1 << der1-izq1 << -(alt1-alt2) << der2-der1 << -alt2 << endl;
      }
  else
  // Caso D:
    if (izq1 < izq2 && alt1 >alt2 && izq2 <= der1)
      {
        if (der1 > der2)
          cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
          else if (der1 == der2)
            cout << izq1 << alt1 << der1-izq1 << -alt1 << endl;
              else
            cout << izq1 << alt1 << der1-izq1 << -(alt1-alt2) << der2-der1 << -alt2 << endl;
      }
  else
  // Caso E:
    if (izq1 < izq2 && alt1 < alt2 && izq2 <= der1)
      {
        if (der1 > der2)
          cout << izq1 << alt1 << izq2-izq1 << alt2-alt1 << der2-izq2 << -(alt2-alt1)
               << der1-der2 << -alt1 << endl;
          else if (der1 == der2)
            cout << izq1 << alt1 << izq2-izq1 << alt2-alt1 << der2-izq2 << -alt2 << endl;
              else
            cout << izq1 << alt1 << izq2-izq1 << alt2-alt1 << der2-izq2 << -alt2 << endl;
      }
    else
    // Ultimo caso, cuadrados separados.
      {
         cout << izq1 << alt1 << der1-izq1 << -alt1 << izq2-der1 << alt2 << der2-izq2
              << -alt2 << endl;
      }
  return EXIT_SUCCESS;
}
```