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MatrixThread.java
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/*****************************
      filename: MatrixThread.java
    description: This is the thread that does the calculations for the
                 individual places of the product matrix.
        author: Paladino, Zac
      login id: cps346-n1.16
         class: CPS 346
    instructor: Perugini
    assignment: PJ #3
      assigned: March 11, 2009
           due: April 15, 2009
class MatrixThread implements Runnable {
     int row, column, id, size;
    double matrixA[][];
    double matrixB[][];
    double matrixP[][];
    Barrier wall;
    MatrixThread (int r, int c, int s, int si, double matrixa[][],
                  double matrixb[][], double matrixp[][], Barrier w){
          this.row = r;
          this.column = c;
          this.id = s;
          this.size = si;
          this.matrixA=matrixa;
          this.matrixB=matrixb;
          this.matrixP=matrixp;
          this.wall = w;
    public void run(){
         double sum = 0.0;
         for(int i=0; i<3; i++){
            sum += (matrixA[row][i]*matrixB[i][column]);
         matrixP[row][column] = sum;
         wall.waitForOthers();
         if(id == (size-1)){
           for(int i=0; i<2; i++){
             for(int k=0; k<2; k++){
               System.out.print( matrixP[i][k] + " ");
             System.out.println();
```