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public class Main
{
    public static void main(String[] args)
    {
        int[] array = new int[] {90,81,78,95,79,72,85};
        //-----
        Multithreader thread1 = new Multithreader(array, 1);
        Multithreader thread2 = new Multithreader(array, 2);
        Multithreader thread3 = new Multithreader(array, 3);
        Multithreader thread4 = new Multithreader(array, 4);
        //Now run them
        thread1.start();
        thread2.start();
        thread3.start();
        thread4.start();
    }
}

public class Multithreader extends Thread
{
    // instance variables - replace the example below with your own
    private int[] RA;
    private int threadNum;

    /**
     * Constructor for objects of class Multithreader
     */
    public Multithreader(int[] array, int id)
    {
        // initialise instance variables
        RA = array;
        threadNum = id;
        //average();
        //min();
        //max();
    }

    public void run()
    {
        try
        {
            System.out.println("Thread " + Thread.currentThread().getId());
            if(threadNum == 1)
            {

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        average();
    }
    else if(threadNum == 2)
    {
        min();
    }
    else if(threadNum == 3)
    {
        max();
    }
    else if(threadNum == 4)
    {
        displayRA();
    }
    else
    {
        System.out.println("Invalid directive from system.");
    }
}
catch (Exception e)
{
    System.out.println("Something went wrong.");
}
}

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private void displayRA()
{
    String temp = "";
    for(int i = 0; i < RA.length; i++)
    {
        temp += RA[i];
        if(i+1 < RA.length)
        {
            temp += ", ";
        }
    }
    System.out.println("Input array: " + temp);
}

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private void average()
{
    int temp = 0;
    for(int i = 0; i < RA.length; i++)
    {

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        temp += RA[i];
    }
    temp = temp / RA.length;
    System.out.println("The average integer value is " + temp);
}

private void min()
{
    int temp = RA[0];
    for(int i = 1; i < RA.length; i++)
    {
        if(temp > RA[i])
        {
            temp = RA[i];
        }
    }
    System.out.println("The minimum integer value is " + temp);
}

private void max()
{
    int temp = RA[0];
    for(int i = 1; i < RA.length; i++)
    {
        if(temp < RA[i])
        {
            temp = RA[i];
        }
    }
    System.out.println("The maximum integer value is " + temp);
}
}

```