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import java.io.*;
import java.net.*;
import java.math.*;

public class ServidorFac{
    Socket s;
    public ServidorFac(int puerto){
        ServerSocket ss;
        try{
            ss = new ServerSocket(puerto);
            System.out.println("Servidor corriendo en el puerto..." + puerto);
            while(true){
                s = ss.accept();
                System.out.println("Accesaron desde .." + "[" + s.toString().substring(12) + "\n");
                ServidorEcoT c = new ServidorEcoT(s);
                c.start();
            }
        }catch(IOException ioe){
            System.out.println("Un error:" + ioe);
        }
    }

    public static void main(String args[]){
        ServidorFac se2 = new ServidorFac(1025);
    }
}

class ServidorEcoT extends Thread{
    Socket s;
    public ServidorEcoT(Socket socket){
        s = socket;
    }

    public void run(){
        try{
            PrintStream salidaSocket = null;
            InputStreamReader isr;
            BufferedReader entradaSocket = null;
            while(true){
                System.out.println(s);
                salidaSocket = new PrintStream(s.getOutputStream());
                isr = new InputStreamReader(s.getInputStream());
                entradaSocket = new BufferedReader(isr);
                String cadena;

                while((cadena = entradaSocket.readLine()) != null){
                    String[] cadenaNew = cadena.split(" ");
                    if(cadenaNew[0].equals("factorial")){
                        try{
                            int fac = Integer.parseInt(cadenaNew[1]);
                            System.out.println(fac);
                            long initialTime = System.currentTimeMillis();
                            FactorialT f1 = new FactorialT(1, fac, initialTime);
                            f1.start();
                            f1.join();
                            f1.resultado = f1.fact;
                            System.out.println("aqui es: " + f1.getFactorial());
                            salidaSocket.println("EC0: El resultado del factorial es: " + f1.getFactorial());
                        }
                        catch(ArrayIndexOutOfBoundsException aioobe){
                            salidaSocket.println("EC0: Forma de uso correcta para factorial es: factorial |Numero|");
                        }
                    }
                    else{
                        if(cadena.equals("salir")){
                            salidaSocket.println("EC0:" + cadena);
                            s.close();
                        }
                        else{
                            {
                                salidaSocket.println("EC0:" + cadena);
                            }
                        }
                    }
                }
            }
            System.out.println("Cerrando puertos del Servidor");
            salidaSocket.close();
        }
    }
}

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        isr.close();
    }
    }catch(SocketException se){
        System.out.println("Cerando el socket:"+s);
        System.out.println("Error en el socket:"+se);
    }catch(IOException ioe){
        System.out.println("Un error:"+ioe);
    }catch(Exception e){
        System.out.println("Un error:"+e);
    }
}
```