Catedra Calculatoare

Raport

PCD

Lucrarea de laborator nr.3

**Tema: Sincronizarea fitelor de execuție utilizând metode a clasei**

Varianta 7

A îndeplinit:st.gr. C-161 Marjina Alexandru

A controlat: lector superior Rotaru Lilia

**Chișinău-2018**

##### Problema: Scrieţi un program care creează patru fire de execuţie. Toate fire vor citi datele din diapazonul indicat în sarcină. Perechile de thread-uri 1-2 și 3-4 au sarcini commune. Primul fir Th1 va afişa: Condiţia 1 din tabelul 3, al doilea fir Th2 va afișa Condiția 2 din tabelul 3, al treilea fir Th3 va afișa Condiția 3 din tabelul 3, al patrulea fir Th4 va afișa Condiția 4 din tabelul 3.

##### Apoi după terminarea tuturor fire de execuţie thread-ul Th2 va afişa Familia studentul care a efectuat lucrarea dată de laborator, Th4 va afișa grupa, Th1 va afișa Numele studentului, Th3 va afișa denumirea obiectului. Literele textului vor apărea pe ecran cu un interval de 100 milisecunde.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7 | Sumele produselor numerelor pare două câte două începând de la ânceputul diapazonului  [200, 300] | Sumele produselor numerelor pare două câte două începând de la sfîrșitul diapazonului  [6, 106] | De parcurs de la început intervalul  [234, 1000] | De parcurs de la sfîrșit intervalul  [456,1234] |

**Listingul programului:**

package company.com;  
import java.util.Random;  
  
class Counter extends Thread {  
 //clasa care defineşte firul de execuţie  
 private int from, to, step,direction; //1-in crestere, 2- in descrestere  
 private int array[] = new int[1000];  
 private String text="";  
 public boolean running=false;  
  
 public Counter(int from, int to, int step, int[] array,int direction,String text) {  
 this.from = from;  
 this.to = to;  
 this.step = step;  
 this.array= array.clone();  
 this.direction=direction;  
 this.text=text;  
 }  
  
 public void run() {  
 int sum1=0,sum2=0,prod=0,count=0,countP=0;  
 int temp1=0,temp2=0;  
 switch (direction){  
 case 1:  
 System.*out*.println();  
 for (int i = from; i <= to; i += step) {  
 if (array[i] % 2 == 0) {  
 count++;  
 if (count == 1) temp1 = array[i];  
 if (count == 2) {  
 temp2 = array[i];  
 prod = temp1 \* temp2;  
 System.*out*.println(super.getName() + ": " + prod + ", ");  
 if (countP <= 1) {  
 sum1 += prod;  
 countP++;  
 } else if (countP == 2) {  
 System.*out*.println(super.getName() + "Sum1 = " + sum1 + ". ");  
 sum1 = 0;  
 countP = 0;  
 }  
 count = 0;  
 }  
 }  
 }  
// try {  
// sleep(1000);  
// } catch (InterruptedException e) {  
// e.printStackTrace();  
// }  
 //SuspendThread();  
 while (!running)  
 this.*yield*();  
  
 System.*out*.print(this.getName() + "-");  
 for (int i = 0; i < this.text.length(); i++) {  
 System.*out*.print(text.charAt(i));  
 try {  
 Thread.*sleep*(150);  
  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 System.*out*.println();  
  
 break;  
 case 2:  
 for (int i = from; i >= to; i -= step) {  
 if (array[i] % 2 == 0) {  
 count++;  
 if (count == 1) temp1 = array[i];  
 if (count == 2) {  
 temp2 = array[i];  
 prod = temp1 \* temp2;  
 System.*out*.print(super.getName() + ": " + prod + ", ");  
 if (countP <= 1) {  
 sum1 += prod;  
 countP++;  
 } else if (countP == 2) {  
 System.*out*.println(super.getName() + "Sum1 = " + sum1 + ". ");  
 sum1 = 0;  
 countP = 0;  
 }  
 count = 0;  
 }  
 }  
 }  
 // SuspendThread();  
 while (!running)  
 this.*yield*();  
  
 System.*out*.print(this.getName() + "-");  
 for (int i = 0; i < this.text.length(); i++) {  
 System.*out*.print(text.charAt(i));  
 try {  
 Thread.*sleep*(150);  
  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 System.*out*.println();  
  
 break;  
 case 3:  
 for (int i = from; i <= to; i += step) {  
 System.*out*.println(super.getName() + " " + array[i] + ", ");  
 }  
 SuspendThread();  
 while (!running)  
 this.*yield*();  
  
 System.*out*.print(this.getName() + "-");  
 for (int i = 0; i < this.text.length(); i++) {  
 System.*out*.print(text.charAt(i));  
 try {  
 Thread.*sleep*(150);  
  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 System.*out*.println();  
  
 break;  
 case 4:  
 for (int i = from; i >= to; i -= step) {  
 System.*out*.println(super.getName() + " " + array[i] + ", ");  
 }  
 //SuspendThread();  
 while (!running)  
 this.*yield*();  
  
 System.*out*.print(this.getName() + "-");  
 for (int i = 0; i < this.text.length(); i++) {  
 System.*out*.print(text.charAt(i));  
 try {  
 Thread.*sleep*(150);  
  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 System.*out*.println();  
  
 break;  
  
 }  
 }  
 public void ResumeThread() {  
 running=true;  
  
 }  
 public void SuspendThread(){  
 running=false;  
 }  
}  
class Dev extends Thread{  
 private String text;  
 Dev(String text){  
 this.text=text;  
 }  
 public void run(){  
 System.*out*.print(this.getName()+"-");  
 for (int i = 0; i < this.text.length(); i++) {  
 System.*out*.print(text.charAt(i));  
 try {  
 Thread.*sleep*(150);  
  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 System.*out*.println();  
 }  
  
}  
  
public class Main {  
  
 public static void main(String[] args) throws InterruptedException {  
 Counter cnt1, cnt2,cnt3,cnt4;  
 int array[];  
 array=new int[2000];  
 System.*out*.println("Sirul generat random:");  
 for(int i=0;i<=1999;i++){  
 array[i]=*getRand*(0,100);  
 System.*out*.print(array[i]+", ");  
 if(i==60)System.*out*.println();  
 }  
 System.*out*.println();  
 System.*out*.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");  
 System.*out*.println();  
  
 cnt1 = new Counter(200, 300, 1,array,1,"Alexandru");  
 //numară de la 0 la 100 cu pasul 5  
  
 cnt2 = new Counter(106, 6, 1,array,2,"Marjina");  
 //numară de la 100 la 200 cu pasul 10  
 cnt3 = new Counter(234, 1000, 1,array,3,"PCD");  
 //numară de la 0 la 100 cu pasul 5  
  
 cnt4 = new Counter(1234, 456, 1,array,4,"C-161");  
  
 cnt1.start();  
 cnt2.start();  
 cnt3.start();  
 cnt4.start();  
 Thread.*sleep*(100);  
 cnt2.ResumeThread();  
 try {  
 cnt2.join();  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 cnt4.ResumeThread();  
 try {  
 cnt2.join();  
 cnt4.join();  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 cnt1.ResumeThread();  
 try {  
 cnt2.join();  
 cnt4.join();  
 cnt1.join();  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 cnt3.ResumeThread();  
 try {  
 cnt2.join();  
 cnt4.join();  
 cnt1.join();  
 cnt3.join();  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
  
  
 cnt3.ResumeThread();  
  
  
 System.*out*.println("Firele de executie 1-4 s-au finisat");  
  
  
 }  
 public static int getRand(int min, int max){  
 if(min >= max){  
 throw new IllegalArgumentException("interval gresit");  
 }  
 Random R =new Random();  
 return R.nextInt((max-min)+1)+min;  
 }  
}

**Output:**

"C:\Program Files\Java\jdk1.8.0\_152\bin\java" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2017.3.2\lib\idea\_rt.jar=56951:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2017.3.2\bin" -Dfile.encoding=UTF-8 -classpath "C:\Program Files\Java\jdk1.8.0\_152\jre\lib\charsets.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\deploy.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\access-bridge-64.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\cldrdata.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\dnsns.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\jaccess.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\jfxrt.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\localedata.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\nashorn.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\sunec.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\sunjce\_provider.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\sunmscapi.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\sunpkcs11.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\ext\zipfs.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\javaws.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\jce.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\jfr.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\jfxswt.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\jsse.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\management-agent.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\plugin.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\resources.jar;C:\Program Files\Java\jdk1.8.0\_152\jre\lib\rt.jar;E:\univer\Anul III\Laboratoare\PCD\Lab3\out\production\Lab3" company.com.Main

Sirul generat random:

24, 42, 93, 62, 58, 53, 88, 15, 28, 42, 85, 100, 46, 25, 75, 3, 3, 31, 72, 25, 78, 91, 28, 21, 34, 33, 51, 67, 91, 1, 8, 40, 39, 24, 92, 80, 47, 26, 83, 90, 73, 92, 88, 87, 3, 93, 3, 64, 49, 24, 96, 43, 41, 32, 31, 57, 66, 85, 29, 15, 7,

76, 72, 89, 37, 26, 9, 97, 24, 59, 100, 71, 40, 44, 34, 12, 35, 73, 37, 10, 85, 24, 37, 50, 85, 31, 8, 82, 39, 55, 83, 28, 77, 9, 68, 12, 19, 44, 15, 67, 56, 79, 42, 74, 8, 61, 56, 53, 22, 60, 57, 39, 81, 99, 38, 99, 92, 100, 16, 100, 92, 82, 59, 83, 17, 7, 29, 21, 60, 78, 65, 98, 66, 16, 51, 68, 61, 48, 87, 56, 59, 33, 74, 18, 12, 23, 84, 22, 76, 70, 2, 44, 51, 78, 86, 37, 55, 99, 21, 15, 81, 7, 91, 61, 70, 55, 53, 98, 70, 88, 10, 87, 64, 43, 80, 25, 37, 37, 12, 2, 48, 57, 64, 74, 44, 15, 70, 49, 42, 32, 19, 37, 18, 99, 3, 30, 20, 56, 24, 57, 98, 2, 99, 90, 98, 84, 8, 46, 55, 55, 91, 18, 91, 31, 82, 20, 9, 55, 28, 10, 72, 47, 54, 72, 81, 61, 35, 7, 29, 77, 62, 8, 6, 92, 42, 85, 72, 54, 45, 94, 56, 24, 49, 54, 94, 57, 54, 41, 79, 82, 74, 92, 0, 45, 46, 95, 83, 76, 20, 14, 35, 93, 61, 5, 8, 39, 1, 30, 37, 48, 63, 70, 50, 74, 79, 7, 62, 78, 86, 11, 53, 85, 48, 86, 95, 41, 96, 49, 79, 19, 78, 25, 36, 50, 86, 29, 10, 77, 49, 21, 71, 13, 94, 100, 19, 87, 41, 72, 35, 94, 100, 29, 16, 71, 42, 83, 80, 24, 49, 17, 59, 15, 51, 15, 12, 90, 37, 25, 3, 44, 34, 46, 10, 30, 32, 96, 23, 86, 92, 14, 83, 75, 36, 5, 52, 62, 68, 78, 94, 48, 65, 60, 97, 98, 94, 31, 61, 49, 83, 26, 62, 71, 32, 71, 15, 47, 35, 4, 43, 74, 23, 43, 24, 1, 68, 34, 88, 28, 93, 89, 88, 62, 67, 75, 91, 51, 38, 72, 24, 14, 74, 85, 61, 45, 5, 69, 70, 28, 13, 75, 98, 18, 23, 24, 85, 42, 21, 32, 13, 53, 66, 8, 79, 58, 10, 22, 7, 20, 23, 67, 89, 54, 99, 47, 93, 54, 5, 90, 48, 24, 26, 16, 31, 23, 97, 84, 57, 76, 95, 62, 61, 83, 74, 2, 30, 37, 95, 32, 78, 93, 93, 87, 69, 29, 16, 20, 9, 79, 32, 39, 8, 31, 38, 74, 35, 99, 79, 42, 50, 7, 87, 19, 87, 29, 18, 77, 58, 93, 44, 93, 18, 8, 22, 39, 12, 72, 53, 1, 52, 6, 23, 39, 28, 57, 22, 33, 72, 72, 72, 16, 3, 50, 19, 11, 97, 77, 8, 80, 91, 5, 9, 49, 37, 20, 83, 77, 17, 0, 78, 85, 13, 80, 86, 47, 45, 68, 73, 37, 42, 76, 44, 38, 56, 62, 42, 59, 82, 14, 31, 27, 50, 56, 52, 25, 34, 95, 39, 44, 53, 55, 31, 63, 83, 89, 82, 100, 38, 59, 42, 35, 87, 57, 93, 37, 33, 10, 2, 46, 11, 69, 19, 4, 54, 1, 77, 94, 100, 29, 92, 1, 96, 82, 16, 74, 20, 74, 73, 84, 40, 20, 51, 64, 33, 55, 65, 72, 76, 45, 69, 60, 49, 29, 6, 71, 52, 81, 27, 63, 33, 5, 66, 32, 9, 74, 65, 12, 65, 41, 9, 96, 51, 1, 46, 80, 12, 52, 52, 51, 55, 96, 47, 94, 84, 80, 96, 100, 84, 76, 20, 61, 88, 82, 84, 59, 100, 79, 1, 60, 85, 87, 25, 24, 94, 79, 23, 89, 42, 29, 78, 70, 80, 81, 70, 82, 97, 84, 24, 84, 65, 34, 16, 89, 38, 34, 8, 37, 57, 65, 72, 33, 32, 23, 43, 78, 96, 71, 42, 69, 61, 61, 60, 46, 98, 31, 74, 99, 34, 96, 71, 40, 69, 58, 20, 29, 20, 64, 65, 41, 2, 69, 63, 72, 16, 43, 51, 4, 100, 29, 49, 94, 8, 13, 86, 78, 90, 14, 41, 75, 14, 17, 23, 88, 86, 51, 52, 52, 15, 52, 39, 92, 64, 11, 20, 90, 99, 47, 46, 44, 74, 35, 60, 52, 11, 16, 35, 50, 4, 43, 8, 88, 14, 6, 55, 47, 14, 57, 81, 22, 8, 94, 7, 4, 91, 72, 62, 14, 68, 34, 94, 81, 67, 82, 74, 68, 29, 20, 63, 90, 2, 82, 48, 55, 54, 0, 54, 76, 8, 4, 91, 85, 63, 67, 74, 83, 69, 39, 10, 33, 96, 80, 13, 17, 49, 25, 48, 81, 46, 32, 89, 27, 28, 26, 61, 50, 51, 40, 88, 69, 16, 76, 18, 81, 87, 84, 72, 24, 87, 41, 60, 18, 75, 31, 27, 41, 35, 26, 17, 74, 59, 16, 53, 90, 16, 75, 17, 55, 4, 11, 60, 32, 40, 31, 28, 5, 91, 58, 12, 66, 13, 43, 26, 48, 65, 80, 73, 2, 93, 78, 39, 42, 31, 66, 34, 30, 32, 33, 69, 79, 72, 83, 71, 79, 93, 21, 69, 80, 48, 48, 10, 94, 51, 81, 30, 83, 18, 0, 73, 5, 31, 60, 19, 64, 73, 88, 76, 46, 72, 87, 44, 96, 59, 9, 55, 6, 3, 86, 62, 18, 67, 2, 44, 87, 86, 32, 93, 97, 77, 100, 67, 99, 67, 76, 8, 92, 20, 0, 73, 55, 52, 70, 95, 82, 68, 89, 8, 28, 16, 75, 71, 9, 99, 5, 30, 48, 45, 94, 63, 6, 49, 57, 77, 4, 63, 87, 29, 30, 56, 46, 9, 41, 22, 49, 99, 96, 69, 27, 51, 74, 41, 75, 5, 18, 32, 49, 51, 35, 83, 39, 44, 2, 97, 30, 21, 24, 80, 35, 56, 41, 47, 95, 77, 26, 6, 36, 88, 94, 72, 63, 47, 35, 95, 77, 0, 95, 83, 40, 74, 64, 89, 44, 2, 35, 20, 41, 37, 45, 11, 72, 28, 2, 79, 32, 31, 3, 76, 12, 60, 5, 78, 12, 33, 7, 52, 11, 52, 15, 62, 91, 76, 96, 13, 46, 42, 39, 90, 11, 17, 75, 12, 83, 15, 84, 78, 11, 85, 19, 36, 56, 14, 12, 89, 20, 0, 98, 30, 49, 69, 75, 56, 76, 7, 74, 66, 23, 0, 39, 57, 98, 68, 4, 52, 23, 100, 25, 85, 6, 91, 69, 83, 69, 2, 32, 62, 41, 14, 10, 44, 68, 39, 72, 83, 19, 17, 99, 14, 67, 46, 94, 30, 85, 42, 0, 11, 47, 11, 51, 25, 60, 57, 37, 27, 3, 64, 6, 10, 48, 24, 33, 73, 55, 44, 2, 24, 64, 91, 92, 40, 68, 79, 93, 5, 34, 99, 3, 5, 13, 22, 45, 29, 14, 82, 33, 65, 26, 47, 64, 47, 28, 39, 14, 60, 93, 6, 88, 78, 17, 94, 56, 12, 82, 95, 100, 36, 14, 70, 43, 5, 72, 92, 74, 15, 36, 50, 85, 29, 67, 33, 89, 1, 11, 13, 27, 32, 22, 60, 98, 99, 98, 14, 78, 20, 31, 62, 43, 50, 47, 51, 33, 41, 73, 100, 95, 15, 92, 74, 65, 72, 77, 58, 98, 21, 12, 78, 52, 86, 72, 11, 34, 29, 97, 64, 66, 2, 29, 90, 34, 16, 70, 47, 46, 5, 64, 76, 48, 13, 76, 57, 99, 75, 72, 35, 75, 52, 61, 79, 57, 59, 93, 22, 49, 59, 52, 50, 50, 39, 39, 46, 84, 52, 40, 28, 29, 90, 92, 56, 30, 23, 98, 51, 0, 57, 23, 72, 28, 11, 70, 34, 56, 55, 27, 39, 0, 73, 59, 74, 58, 8, 6, 81, 21, 88, 56, 98, 1, 11, 46, 100, 25, 55, 13, 86, 86, 22, 75, 33, 50, 42, 78, 79, 46, 58, 61, 26, 50, 79, 2, 27, 54, 21, 51, 64, 86, 91, 89, 13, 3, 37, 41, 58, 43, 46, 64, 2, 16, 47, 82, 64, 58, 0, 81, 38, 36, 15, 18, 50, 34, 13, 62, 68, 79, 57, 31, 79, 59, 78, 58, 78, 92, 18, 32, 74, 95, 95, 85, 90, 10, 59, 88, 18, 63, 1, 49, 57, 81, 8, 91, 24, 12, 29, 7, 94, 87, 70, 41, 11, 90, 42, 58, 92, 60, 8, 89, 27, 92, 38, 66, 84, 48, 12, 93, 29, 5, 31, 52, 94, 50, 83, 48, 99, 10, 2, 71, 26, 2, 59, 21, 43, 30, 71, 40, 50, 68, 77, 36, 4, 13, 42, 54, 90, 18, 76, 2, 95, 92, 52, 80, 12, 14, 68, 27, 59, 56, 12, 7, 59, 75, 87, 17, 47, 65, 69, 100, 38, 41, 9, 78, 97, 15, 60, 28, 38, 43, 93, 14, 46, 70, 94, 37, 30, 65, 44, 64, 41, 69, 4, 22, 32, 47, 26, 87, 3, 20, 100, 79, 3, 69, 82, 63, 80, 59, 47, 94, 36, 58, 74, 75, 16, 0, 64, 16, 53, 77, 15, 86, 91, 33, 38, 50, 91, 83, 28, 47, 33, 86, 47, 80, 35, 72, 69, 43, 100, 80, 0, 69, 53, 57, 92, 78, 95, 90, 91, 58, 36, 4, 6, 6, 10, 36, 78, 45, 41, 93, 91, 19, 84, 56, 67, 71, 68, 26, 26, 93, 36, 16, 41, 68, 93, 12, 47, 52, 75, 5, 98, 86, 38, 41, 11, 13, 19, 98, 75, 26, 92, 85, 50, 52, 95, 68, 78, 99, 57, 38, 82, 39, 22, 49, 90, 33, 83, 85, 23, 27, 22, 59, 19, 85, 95, 98, 38, 47, 56, 100, 69, 73, 53, 74, 59, 42, 41, 35, 9, 27, 95, 76, 22, 50, 21, 75, 39, 68, 79, 74, 95, 20, 96, 66, 29, 72, 33, 25, 9, 94, 58, 78, 84, 18, 66, 20, 78, 67, 38, 6, 24, 81, 26, 41, 24, 22, 54, 33, 0, 72, 83, 15, 73, 85, 82, 26, 7, 5, 6, 91, 96, 15, 16, 64, 51, 41, 75, 83, 9, 34, 19, 36, 25, 44, 64, 71, 11, 33, 75, 54, 77, 87, 3, 0, 31, 41, 81, 85, 9, 0, 12, 99, 36, 22, 12, 92, 43, 37, 94, 56, 58, 39, 21, 33, 36, 20, 48, 100, 47, 98, 34, 40, 72, 24, 95, 70, 31, 36, 56, 37, 100, 35, 15, 89, 75, 26, 59, 21, 64, 86, 28, 33, 83, 89, 4, 48, 17, 30, 42, 21, 45, 3, 62, 57, 95, 7, 42, 98, 7, 88, 29, 92, 92, 22, 52, 53, 12, 4, 67, 0, 42, 62, 95, 84, 84, 66, 55, 28, 12, 99, 29, 14, 14, 23, 90, 95, 79, 36, 10, 89, 82, 74, 34, 9, 7, 45, 36, 78, 40, 5, 93, 33, 3, 59, 49, 34, 93, 85, 30, 53, 47, 98, 34, 78, 83, 59, 49, 95, 28, 70, 11, 82, 57, 43, 22, 37, 43, 33, 45, 65, 70, 79, 6, 7, 31, 4, 21, 37, 36, 37, 39, 67, 89, 75, 88, 46, 34, 66, 64, 25, 22, 12, 98, 100, 58, 49, 88, 10, 62, 57, 55, 43, 8, 28, 75, 76, 59, 10, 66, 93, 84, 31, 56, 100, 10, 15, 39, 2, 86, 85, 87, 39, 6, 41, 86, 73, 45, 10, 21, 70, 61, 27, 69, 82, 64, 65, 26, 16, 26, 88, 90, 71, 58, 72, 73, 71, 17, 49, 39, 27, 94, 91, 98, 91, 81, 95, 52, 82, 44, 90, 62, 33, 6, 83, 60, 91, 17, 12, 6, 50, 83, 45, 49, 62, 84, 7, 93, 21, 98, 89, 36, 86, 0, 71, 41, 92, 50, 92, 73, 52, 66, 66, 83, 18, 15, 15, 39, 86, 70, 6, 34, 31, 62, 11, 54, 72, 9, 22, 41, 69, 31, 57, 9, 50, 21, 15, 88, 33,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Thread-0: 196,

Thread-0: 8820,

Thread-1: 448, Thread-0: 672,

Thread-1: 3108, Thread-1: 2464, Thread-1Sum1 = 3556.

Thread-1: 816, Thread-1: 2296, Thread-0Sum1 = 9016.

Thread-0: 828,

Thread-1: 400, Thread-0: 1640,

Thread-0: 280,

Thread-1Sum1 = 3112.

Thread-0Sum1 = 2468.

Thread-0: 3888,

Thread-0: 4464,

Thread-0: 48,

Thread-0Sum1 = 8352.

Thread-3 74,

Thread-3 92,

Thread-3 15,

Thread-3 95,

Thread-3 100,

Thread-3 73,

Thread-3 41,

Thread-3 33,

Thread-3 51,

Thread-3 47,

Thread-3 50,

Thread-3 43,

Thread-3 62,

Thread-3 31,

Thread-3 20,

Thread-3 78,

Thread-3 14,

Thread-3 98,

Thread-3 99,

Thread-3 98,

Thread-3 60,

Thread-3 22,

Thread-3 32,

Thread-3 27,

Thread-3 13,

Thread-3 11,

Thread-3 1,

Thread-3 89,

Thread-3 33,

Thread-3 67,

Thread-3 29,

Thread-3 85,

Thread-3 50,

Thread-3 36,

Thread-3 15,

Thread-3 74,

Thread-3 92,

Thread-3 72,

Thread-3 5,

Thread-3 43,

Thread-3 70,

Thread-3 14,

Thread-3 36,

Thread-3 100,

Thread-3 95,

Thread-3 82,

Thread-3 12,

Thread-3 56,

Thread-3 94,

Thread-3 17,

Thread-3 78,

Thread-3 88,

Thread-3 6,

Thread-3 93,

Thread-3 60,

Thread-3 14,

Thread-3 39,

Thread-3 28,

Thread-3 47,

Thread-3 64,

Thread-3 47,

Thread-3 26,

Thread-3 65,

Thread-2 42,

Thread-3 33,

Thread-3 82,

Thread-3 14,

Thread-3 29,

Thread-3 45,

Thread-3 22,

Thread-3 13,

Thread-3 5,

Thread-3 3,

Thread-3 99,

Thread-3 34,

Thread-3 5,

Thread-3 93,

Thread-3 79,

Thread-3 68,

Thread-3 40,

Thread-3 92,

Thread-3 91,

Thread-3 64,

Thread-3 24,

Thread-3 2,

Thread-3 44,

Thread-3 55,

Thread-3 73,

Thread-3 33,

Thread-3 24,

Thread-3 48,

Thread-3 10,

Thread-3 6,

Thread-3 64,

Thread-3 3,

Thread-3 27,

Thread-3 37,

Thread-3 57,

Thread-3 60,

Thread-3 25,

Thread-3 51,

Thread-3 11,

Thread-3 47,

Thread-3 11,

Thread-3 0,

Thread-3 42,

Thread-3 85,

Thread-3 30,

Thread-3 94,

Thread-3 46,

Thread-3 67,

Thread-3 14,

Thread-3 99,

Thread-3 17,

Thread-3 19,

Thread-3 83,

Thread-3 72,

Thread-3 39,

Thread-3 68,

Thread-3 44,

Thread-3 10,

Thread-3 14,

Thread-3 41,

Thread-3 62,

Thread-3 32,

Thread-3 2,

Thread-3 69,

Thread-3 83,

Thread-3 69,

Thread-1: 240, Thread-1: 408, Thread-1: 1760, Thread-1Sum1 = 648.

Thread-1: 2400, Thread-1: 1872, Thread-1: 5016, Thread-1Sum1 = 4272.

Thread-1: 3072, Thread-1: 1536, Thread-1: 8096, Thread-1Sum1 = 4608.

Thread-1: 2340, Thread-1: 7360, Thread-1: 960, Thread-1Sum1 = 9700.

Thread-1: 272, Thread-1: 2184, Thread-1: 3312, Thread-1Sum1 = 2456.

Thread-1: 4200, Thread-1: 2464, Thread-3 91,

Thread-3 6,

Thread-3 85,

Thread-3 25,

Thread-3 100,

Thread-3 23,

Thread-3 52,

Thread-3 4,

Thread-3 68,

Thread-3 98,

Thread-3 57,

Thread-3 39,

Thread-3 0,

Thread-3 23,

Thread-3 66,

Thread-3 74,

Thread-3 7,

Thread-3 76,

Thread-3 56,

Thread-3 75,

Thread-3 69,

Thread-3 49,

Thread-3 30,

Thread-3 98,

Thread-3 0,

Thread-3 20,

Thread-3 89,

Thread-3 12,

Thread-3 14,

Thread-3 56,

Thread-3 36,

Thread-3 19,

Thread-3 85,

Thread-3 11,

Thread-3 78,

Thread-3 84,

Thread-3 15,

Thread-3 83,

Thread-3 12,

Thread-3 75,

Thread-3 17,

Thread-3 11,

Thread-3 90,

Thread-3 39,

Thread-3 42,

Thread-3 46,

Thread-3 13,

Thread-3 96,

Thread-3 76,

Thread-3 91,

Thread-3 62,

Thread-3 15,

Thread-3 52,

Thread-3 11,

Thread-3 52,

Thread-3 7,

Thread-3 33,

Thread-3 12,

Thread-3 78,

Thread-3 5,

Thread-3 60,

Thread-3 12,

Thread-3 76,

Thread-3 3,

Thread-3 31,

Thread-3 32,

Thread-3 79,

Thread-3 2,

Thread-3 28,

Thread-3 72,

Thread-3 11,

Thread-3 45,

Thread-3 37,

Thread-3 41,

Thread-3 20,

Thread-3 35,

Thread-3 2,

Thread-3 44,

Thread-3 89,

Thread-3 64,

Thread-3 74,

Thread-3 40,

Thread-3 83,

Thread-3 95,

Thread-3 0,

Thread-3 77,

Thread-3 95,

Thread-3 35,

Thread-3 47,

Thread-3 63,

Thread-3 72,

Thread-3 94,

Thread-3 88,

Thread-3 36,

Thread-3 6,

Thread-3 26,

Thread-3 77,

Thread-3 95,

Thread-3 47,

Thread-3 41,

Thread-3 56,

Thread-3 35,

Thread-3 80,

Thread-3 24,

Thread-3 21,

Thread-3 30,

Thread-3 97,

Thread-3 2,

Thread-3 44,

Thread-3 39,

Thread-3 83,

Thread-3 35,

Thread-3 51,

Thread-3 49,

Thread-3 32,

Thread-3 18,

Thread-3 5,

Thread-3 75,

Thread-3 41,

Thread-3 74,

Thread-3 51,

Thread-3 27,

Thread-3 69,

Thread-3 96,

Thread-3 99,

Thread-3 49,

Thread-3 22,

Thread-3 41,

Thread-3 9,

Thread-0: 3864,

Thread-0: 3888,

Thread-3 46,

Thread-3 56,

Thread-3 30,

Thread-3 29,

Thread-3 87,

Thread-3 63,

Thread-3 4,

Thread-3 77,

Thread-3 57,

Thread-3 49,

Thread-3 6,

Thread-3 63,

Thread-2 85,

Thread-3 94,

Thread-3 45,

Thread-0: 5264,

Thread-0Sum1 = 7752.

Thread-3 48,

Thread-3 30,

Thread-3 5,

Thread-3 99,

Thread-3 9,

Thread-3 71,

Thread-3 75,

Thread-3 16,

Thread-3 28,

Thread-3 8,

Thread-3 89,

Thread-3 68,

Thread-2 72,

Thread-3 82,

Thread-0: 1296,

Thread-3 95,

Thread-2 54,

Thread-3 70,

Thread-0: 5076,

Thread-3 52,

Thread-2 45,

Thread-3 55,

Thread-0: 6068,

Thread-3 73,

Thread-2 94,

Thread-3 0,

Thread-0Sum1 = 6372.

Thread-3 20,

Thread-3 92,

Thread-3 8,

Thread-3 76,

Thread-3 67,

Thread-3 99,

Thread-3 67,

Thread-3 100,

Thread-3 77,

Thread-3 97,

Thread-3 93,

Thread-3 32,

Thread-3 86,

Thread-3 87,

Thread-3 44,

Thread-3 2,

Thread-3 67,

Thread-3 18,

Thread-3 62,

Thread-3 86,

Thread-3 3,

Thread-3 6,

Thread-3 55,

Thread-3 9,

Thread-3 59,

Thread-3 96,

Thread-3 44,

Thread-3 87,

Thread-3 72,

Thread-3 46,

Thread-3 76,

Thread-3 88,

Thread-3 73,

Thread-3 64,

Thread-3 19,

Thread-3 60,

Thread-3 31,

Thread-3 5,

Thread-3 73,

Thread-3 0,

Thread-3 18,

Thread-3 83,

Thread-3 30,

Thread-3 81,

Thread-3 51,

Thread-3 94,

Thread-3 10,

Thread-3 48,

Thread-3 48,

Thread-3 80,

Thread-3 69,

Thread-3 21,

Thread-3 93,

Thread-3 79,

Thread-3 71,

Thread-3 83,

Thread-3 72,

Thread-3 79,

Thread-3 69,

Thread-3 33,

Thread-3 32,

Thread-3 30,

Thread-3 34,

Thread-3 66,

Thread-3 31,

Thread-3 42,

Thread-3 39,

Thread-3 78,

Thread-3 93,

Thread-3 2,

Thread-3 73,

Thread-3 80,

Thread-3 65,

Thread-3 48,

Thread-3 26,

Thread-3 43,

Thread-3 13,

Thread-3 66,

Thread-3 12,

Thread-3 58,

Thread-3 91,

Thread-3 5,

Thread-3 28,

Thread-3 31,

Thread-3 40,

Thread-3 32,

Thread-3 60,

Thread-3 11,

Thread-3 4,

Thread-3 55,

Thread-3 17,

Thread-3 75,

Thread-3 16,

Thread-3 90,

Thread-3 53,

Thread-3 16,

Thread-3 59,

Thread-3 74,

Thread-3 17,

Thread-2 56,

Thread-3 26,

Thread-3 35,

Thread-3 41,

Thread-3 27,

Thread-3 31,

Thread-3 75,

Thread-3 18,

Thread-3 60,

Thread-3 41,

Thread-3 87,

Thread-3 24,

Thread-3 72,

Thread-3 84,

Thread-3 87,

Thread-3 81,

Thread-3 18,

Thread-3 76,

Thread-0: 0,

Thread-3 16,

Thread-3 69,

Thread-3 88,

Thread-3 40,

Thread-3 51,

Thread-3 50,

Thread-3 61,

Thread-3 26,

Thread-3 28,

Thread-3 27,

Thread-3 89,

Thread-3 32,

Thread-3 46,

Thread-3 81,

Thread-3 48,

Thread-3 25,

Thread-3 49,

Thread-2 24,

Thread-3 17,

Thread-3 13,

Thread-3 80,

Thread-3 96,

Thread-3 33,

Thread-3 10,

Thread-3 39,

Thread-3 69,

Thread-3 83,

Thread-3 74,

Thread-3 67,

Thread-3 63,

Thread-3 85,

Thread-3 91,

Thread-3 4,

Thread-3 8,

Thread-3 76,

Thread-0: 3496,

Thread-3 54,

Thread-3 0,

Thread-3 54,

Thread-3 55,

Thread-3 48,

Thread-3 82,

Thread-3 2,

Thread-3 90,

Thread-3 63,

Thread-3 20,

Thread-3 29,

Thread-3 68,

Thread-3 74,

Thread-3 82,

Thread-3 67,

Thread-3 81,

Thread-3 94,

Thread-2 49,

Thread-3 34,

Thread-3 68,

Thread-3 14,

Thread-3 62,

Thread-3 72,

Thread-3 91,

Thread-3 4,

Thread-3 7,

Thread-3 94,

Thread-3 8,

Thread-3 22,

Thread-3 81,

Thread-3 57,

Thread-3 14,

Thread-3 47,

Thread-3 55,

Thread-3 6,

Thread-3 14,

Thread-3 88,

Thread-3 8,

Thread-3 43,

Thread-3 4,

Thread-3 50,

Thread-3 35,

Thread-3 16,

Thread-3 11,

Thread-3 52,

Thread-3 60,

Thread-3 35,

Thread-3 74,

Thread-3 44,

Thread-3 46,

Thread-3 47,

Thread-3 99,

Thread-3 90,

Thread-3 20,

Thread-3 11,

Thread-3 64,

Thread-3 92,

Thread-3 39,

Thread-3 52,

Thread-3 15,

Thread-3 52,

Thread-3 52,

Thread-3 51,

Thread-0: 280,

Thread-3 86,

Thread-2 54,

Thread-2 94,

Thread-2 57,

Thread-2 54,

Thread-2 41,

Thread-2 79,

Thread-2 82,

Thread-2 74,

Thread-2 92,

Thread-2 0,

Thread-2 45,

Thread-2 46,

Thread-2 95,

Thread-2 83,

Thread-2 76,

Thread-2 20,

Thread-2 14,

Thread-3 88,

Thread-0Sum1 = 3496.

Thread-3 23,

Thread-3 17,

Thread-3 14,

Thread-3 75,

Thread-3 41,

Thread-3 14,

Thread-3 90,

Thread-3 78,

Thread-3 86,

Thread-3 13,

Thread-2 35,

Thread-2 93,

Thread-2 61,

Thread-2 5,

Thread-2 8,

Thread-2 39,

Thread-2 1,

Thread-3 8,

Thread-0: 240,

Thread-3 94,

Thread-3 49,

Thread-3 29,

Thread-3 100,

Thread-3 4,

Thread-3 51,

Thread-3 43,

Thread-3 16,

Thread-3 72,

Thread-3 63,

Thread-3 69,

Thread-3 2,

Thread-3 41,

Thread-3 65,

Thread-3 64,

Thread-3 20,

Thread-3 29,

Thread-3 20,

Thread-3 58,

Thread-3 69,

Thread-3 40,

Thread-3 71,

Thread-3 96,

Thread-3 34,

Thread-3 99,

Thread-3 74,

Thread-3 31,

Thread-3 98,

Thread-3 46,

Thread-3 60,

Thread-3 61,

Thread-3 61,

Thread-3 69,

Thread-3 42,

Thread-3 71,

Thread-3 96,

Thread-3 78,

Thread-3 43,

Thread-3 23,

Thread-2 30,

Thread-3 32,

Thread-3 33,

Thread-3 72,

Thread-3 65,

Thread-3 57,

Thread-3 37,

Thread-0: 3360,

Thread-3 8,

Thread-2 37,

Thread-3 34,

Thread-2 48,

Thread-0: 3700,

Thread-2 63,

Thread-2 70,

Thread-3 38,

Thread-3 89,

Thread-3 16,

Thread-3 34,

Thread-3 65,

Thread-3 84,

Thread-2 50,

Thread-0Sum1 = 3600.

Thread-2 74,

Thread-3 24,

Thread-2 79,

Thread-0: 4836,

Thread-2 7,

Thread-2 62,

Thread-3 84,

Thread-3 97,

Thread-3 82,

Thread-3 70,

Thread-3 81,

Thread-3 80,

Thread-3 70,

Thread-3 78,

Thread-2 78,

Thread-0: 4128,

Thread-2 86,

Thread-3 29,

Thread-2 11,

Thread-0: 8256,

Thread-2 53,

Thread-3 42,

Thread-3 89,

Thread-3 23,

Thread-3 79,

Thread-3 94,

Thread-3 24,

Thread-3 25,

Thread-3 87,

Thread-3 85,

Thread-3 60,

Thread-3 1,

Thread-3 79,

Thread-3 100,

Thread-3 59,

Thread-3 84,

Thread-3 82,

Thread-3 88,

Thread-3 61,

Thread-3 20,

Thread-3 76,

Thread-3 84,

Thread-3 100,

Thread-3 96,

Thread-3 80,

Thread-3 84,

Thread-3 94,

Thread-3 47,

Thread-3 96,

Thread-3 55,

Thread-3 51,

Thread-3 52,

Thread-3 52,

Thread-3 12,

Thread-2 85,

Thread-0Sum1 = 8964.

Thread-2 48,

Thread-2 86,

Thread-2 95,

Thread-3 80,

Thread-2 41,

Thread-2 96,

Thread-2 49,

Thread-2 79,

Thread-2 19,

Thread-2 78,

Thread-2 25,

Thread-2 36,

Thread-2 50,

Thread-2 86,

Thread-2 29,

Thread-0: 2808,

Thread-2 10,

Thread-2 77,

Thread-2 49,

Thread-3 46,

Thread-2 21,

Thread-0: 4300,

Thread-2 71,

Thread-2 13,

Thread-2 94,

Thread-2 100,

Thread-2 19,

Thread-3 1,

Thread-2 87,

Thread-2 41,

Thread-2 72,

Thread-2 35,

Thread-2 94,

Thread-3 51,

Thread-2 100,

Thread-2 29,

Thread-2 16,

Thread-2 71,

Thread-2 42,

Thread-3 96,

Thread-2 83,

Thread-2 80,

Thread-2 24,

Thread-3 9,

Thread-3 41,

Thread-3 65,

Thread-3 12,

Thread-3 65,

Thread-3 74,

Thread-3 9,

Thread-3 32,

Thread-3 66,

Thread-3 5,

Thread-3 33,

Thread-3 63,

Thread-3 27,

Thread-3 81,

Thread-3 52,

Thread-3 71,

Thread-3 6,

Thread-3 29,

Thread-3 49,

Thread-3 60,

Thread-3 69,

Thread-3 45,

Thread-3 76,

Thread-3 72,

Thread-3 65,

Thread-3 55,

Thread-3 33,

Thread-3 64,

Thread-3 51,

Thread-3 20,

Thread-3 40,

Thread-3 84,

Thread-2 49,

Thread-3 73,

Thread-3 74,

Thread-3 20,

Thread-3 74,

Thread-3 16,

Thread-3 82,

Thread-3 96,

Thread-3 1,

Thread-3 92,

Thread-3 29,

Thread-3 100,

Thread-3 94,

Thread-3 77,

Thread-3 1,

Thread-3 54,

Thread-3 4,

Thread-3 19,

Thread-3 69,

Thread-3 11,

Thread-3 46,

Thread-3 2,

Thread-3 10,

Thread-3 33,

Thread-3 37,

Thread-3 93,

Thread-3 57,

Thread-3 87,

Thread-3 35,

Thread-3 42,

Thread-3 59,

Thread-3 38,

Thread-3 100,

Thread-3 82,

Thread-3 89,

Thread-3 83,

Thread-3 63,

Thread-3 31,

Thread-3 55,

Thread-3 53,

Thread-3 44,

Thread-3 39,

Thread-3 95,

Thread-3 34,

Thread-3 25,

Thread-3 52,

Thread-3 56,

Thread-3 50,

Thread-3 27,

Thread-3 31,

Thread-2 17,

Thread-3 14,

Thread-3 82,

Thread-3 59,

Thread-3 42,

Thread-3 62,

Thread-3 56,

Thread-3 38,

Thread-3 44,

Thread-3 76,

Thread-3 42,

Thread-3 37,

Thread-3 73,

Thread-3 68,

Thread-3 45,

Thread-3 47,

Thread-3 86,

Thread-3 80,

Thread-2 59,

Thread-2 15,

Thread-2 51,

Thread-2 15,

Thread-2 12,

Thread-2 90,

Thread-2 37,

Thread-2 25,

Thread-3 13,

Thread-3 85,

Thread-3 78,

Thread-3 0,

Thread-3 17,

Thread-3 77,

Thread-3 83,

Thread-3 20,

Thread-3 37,

Thread-3 49,

Thread-3 9,

Thread-3 5,

Thread-3 91,

Thread-3 80,

Thread-3 8,

Thread-3 77,

Thread-3 97,

Thread-2 3,

Thread-2 44,

Thread-2 34,

Thread-2 46,

Thread-2 10,

Thread-2 30,

Thread-2 32,

Thread-2 96,

Thread-2 23,

Thread-2 86,

Thread-2 92,

Thread-2 14,

Thread-2 83,

Thread-2 75,

Thread-2 36,

Thread-2 5,

Thread-2 52,

Thread-2 62,

Thread-2 68,

Thread-2 78,

Thread-2 94,

Thread-2 48,

Thread-2 65,

Thread-2 60,

Thread-2 97,

Thread-2 98,

Thread-2 94,

Thread-2 31,

Thread-2 61,

Thread-2 49,

Thread-2 83,

Thread-2 26,

Thread-2 62,

Thread-2 71,

Thread-2 32,

Thread-2 71,

Thread-2 15,

Thread-2 47,

Thread-2 35,

Thread-2 4,

Thread-2 43,

Thread-2 74,

Thread-2 23,

Thread-2 43,

Thread-2 24,

Thread-2 1,

Thread-2 68,

Thread-2 34,

Thread-2 88,

Thread-2 28,

Thread-2 93,

Thread-2 89,

Thread-2 88,

Thread-2 62,

Thread-2 67,

Thread-2 75,

Thread-2 91,

Thread-2 51,

Thread-2 38,

Thread-2 72,

Thread-2 24,

Thread-2 14,

Thread-2 74,

Thread-2 85,

Thread-2 61,

Thread-2 45,

Thread-2 5,

Thread-2 69,

Thread-2 70,

Thread-2 28,

Thread-2 13,

Thread-2 75,

Thread-2 98,

Thread-2 18,

Thread-2 23,

Thread-2 24,

Thread-2 85,

Thread-2 42,

Thread-2 21,

Thread-2 32,

Thread-2 13,

Thread-2 53,

Thread-2 66,

Thread-2 8,

Thread-2 79,

Thread-2 58,

Thread-2 10,

Thread-2 22,

Thread-2 7,

Thread-2 20,

Thread-2 23,

Thread-2 67,

Thread-2 89,

Thread-2 54,

Thread-2 99,

Thread-2 47,

Thread-2 93,

Thread-2 54,

Thread-2 5,

Thread-2 90,

Thread-2 48,

Thread-2 24,

Thread-2 26,

Thread-2 16,

Thread-2 31,

Thread-2 23,

Thread-2 97,

Thread-2 84,

Thread-2 57,

Thread-2 76,

Thread-2 95,

Thread-2 62,

Thread-2 61,

Thread-2 83,

Thread-2 74,

Thread-2 2,

Thread-2 30,

Thread-2 37,

Thread-2 95,

Thread-2 32,

Thread-2 78,

Thread-2 93,

Thread-2 93,

Thread-2 87,

Thread-2 69,

Thread-2 29,

Thread-2 16,

Thread-2 20,

Thread-2 9,

Thread-2 79,

Thread-2 32,

Thread-2 39,

Thread-2 8,

Thread-2 31,

Thread-2 38,

Thread-2 74,

Thread-2 35,

Thread-2 99,

Thread-2 79,

Thread-2 42,

Thread-2 50,

Thread-2 7,

Thread-2 87,

Thread-2 19,

Thread-2 87,

Thread-2 29,

Thread-2 18,

Thread-2 77,

Thread-2 58,

Thread-2 93,

Thread-2 44,

Thread-2 93,

Thread-2 18,

Thread-2 8,

Thread-2 22,

Thread-2 39,

Thread-2 12,

Thread-2 72,

Thread-2 53,

Thread-2 1,

Thread-2 52,

Thread-2 6,

Thread-2 23,

Thread-2 39,

Thread-2 28,

Thread-2 57,

Thread-2 22,

Thread-2 33,

Thread-2 72,

Thread-2 72,

Thread-2 72,

Thread-2 16,

Thread-2 3,

Thread-2 50,

Thread-2 19,

Thread-2 11,

Thread-2 97,

Thread-2 77,

Thread-2 8,

Thread-2 80,

Thread-2 91,

Thread-2 5,

Thread-2 9,

Thread-2 49,

Thread-2 37,

Thread-2 20,

Thread-2 83,

Thread-2 77,

Thread-2 17,

Thread-2 0,

Thread-2 78,

Thread-2 85,

Thread-2 13,

Thread-2 80,

Thread-2 86,

Thread-2 47,

Thread-2 45,

Thread-2 68,

Thread-2 73,

Thread-2 37,

Thread-2 42,

Thread-2 76,

Thread-2 44,

Thread-2 38,

Thread-2 56,

Thread-2 62,

Thread-2 42,

Thread-2 59,

Thread-2 82,

Thread-2 14,

Thread-2 31,

Thread-2 27,

Thread-2 50,

Thread-2 56,

Thread-2 52,

Thread-2 25,

Thread-2 34,

Thread-2 95,

Thread-2 39,

Thread-2 44,

Thread-2 53,

Thread-2 55,

Thread-2 31,

Thread-2 63,

Thread-2 83,

Thread-2 89,

Thread-2 82,

Thread-2 100,

Thread-2 38,

Thread-2 59,

Thread-2 42,

Thread-2 35,

Thread-2 87,

Thread-2 57,

Thread-2 93,

Thread-2 37,

Thread-2 33,

Thread-2 10,

Thread-2 2,

Thread-2 46,

Thread-2 11,

Thread-2 69,

Thread-2 19,

Thread-2 4,

Thread-2 54,

Thread-2 1,

Thread-2 77,

Thread-2 94,

Thread-2 100,

Thread-2 29,

Thread-2 92,

Thread-2 1,

Thread-2 96,

Thread-2 82,

Thread-2 16,

Thread-2 74,

Thread-2 20,

Thread-2 74,

Thread-2 73,

Thread-2 84,

Thread-2 40,

Thread-2 20,

Thread-2 51,

Thread-2 64,

Thread-2 33,

Thread-2 55,

Thread-2 65,

Thread-2 72,

Thread-2 76,

Thread-2 45,

Thread-2 69,

Thread-2 60,

Thread-2 49,

Thread-2 29,

Thread-2 6,

Thread-2 71,

Thread-2 52,

Thread-2 81,

Thread-2 27,

Thread-2 63,

Thread-2 33,

Thread-2 5,

Thread-2 66,

Thread-2 32,

Thread-2 9,

Thread-2 74,

Thread-2 65,

Thread-2 12,

Thread-2 65,

Thread-2 41,

Thread-2 9,

Thread-2 96,

Thread-2 51,

Thread-2 1,

Thread-2 46,

Thread-2 80,

Thread-2 12,

Thread-2 52,

Thread-2 52,

Thread-2 51,

Thread-2 55,

Thread-2 96,

Thread-2 47,

Thread-2 94,

Thread-2 84,

Thread-2 80,

Thread-2 96,

Thread-2 100,

Thread-2 84,

Thread-2 76,

Thread-2 20,

Thread-2 61,

Thread-2 88,

Thread-2 82,

Thread-2 84,

Thread-2 59,

Thread-2 100,

Thread-2 79,

Thread-2 1,

Thread-2 60,

Thread-2 85,

Thread-2 87,

Thread-2 25,

Thread-2 24,

Thread-2 94,

Thread-2 79,

Thread-2 23,

Thread-2 89,

Thread-2 42,

Thread-2 29,

Thread-2 78,

Thread-2 70,

Thread-2 80,

Thread-2 81,

Thread-2 70,

Thread-2 82,

Thread-2 97,

Thread-2 84,

Thread-2 24,

Thread-2 84,

Thread-2 65,

Thread-2 34,

Thread-2 16,

Thread-2 89,

Thread-2 38,

Thread-2 34,

Thread-2 8,

Thread-2 37,

Thread-2 57,

Thread-2 65,

Thread-2 72,

Thread-2 33,

Thread-2 32,

Thread-2 23,

Thread-2 43,

Thread-2 78,

Thread-2 96,

Thread-2 71,

Thread-2 42,

Thread-2 69,

Thread-2 61,

Thread-2 61,

Thread-2 60,

Thread-2 46,

Thread-2 98,

Thread-2 31,

Thread-2 74,

Thread-2 99,

Thread-2 34,

Thread-2 96,

Thread-2 71,

Thread-2 40,

Thread-2 69,

Thread-2 58,

Thread-2 20,

Thread-2 29,

Thread-2 20,

Thread-2 64,

Thread-2 65,

Thread-2 41,

Thread-2 2,

Thread-2 69,

Thread-2 63,

Thread-2 72,

Thread-2 16,

Thread-2 43,

Thread-2 51,

Thread-2 4,

Thread-2 100,

Thread-2 29,

Thread-2 49,

Thread-2 94,

Thread-2 8,

Thread-2 13,

Thread-2 86,

Thread-2 78,

Thread-2 90,

Thread-2 14,

Thread-2 41,

Thread-2 75,

Thread-2 14,

Thread-2 17,

Thread-2 23,

Thread-2 88,

Thread-2 86,

Thread-2 51,

Thread-2 52,

Thread-2 52,

Thread-2 15,

Thread-2 52,

Thread-2 39,

Thread-2 92,

Thread-2 64,

Thread-2 11,

Thread-2 20,

Thread-2 90,

Thread-2 99,

Thread-2 47,

Thread-2 46,

Thread-2 44,

Thread-2 74,

Thread-2 35,

Thread-2 60,

Thread-2 52,

Thread-2 11,

Thread-2 16,

Thread-2 35,

Thread-2 50,

Thread-2 4,

Thread-2 43,

Thread-2 8,

Thread-2 88,

Thread-2 14,

Thread-2 6,

Thread-2 55,

Thread-2 47,

Thread-2 14,

Thread-2 57,

Thread-2 81,

Thread-2 22,

Thread-2 8,

Thread-2 94,

Thread-2 7,

Thread-2 4,

Thread-2 91,

Thread-2 72,

Thread-2 62,

Thread-2 14,

Thread-2 68,

Thread-2 34,

Thread-2 94,

Thread-2 81,

Thread-2 67,

Thread-2 82,

Thread-2 74,

Thread-2 68,

Thread-2 29,

Thread-2 20,

Thread-2 63,

Thread-2 90,

Thread-2 2,

Thread-2 82,

Thread-2 48,

Thread-2 55,

Thread-2 54,

Thread-2 0,

Thread-2 54,

Thread-2 76,

Thread-2 8,

Thread-2 4,

Thread-2 91,

Thread-2 85,

Thread-2 63,

Thread-2 67,

Thread-2 74,

Thread-2 83,

Thread-2 69,

Thread-2 39,

Thread-2 10,

Thread-2 33,

Thread-2 96,

Thread-2 80,

Thread-2 13,

Thread-2 17,

Thread-2 49,

Thread-2 25,

Thread-2 48,

Thread-2 81,

Thread-2 46,

Thread-2 32,

Thread-2 89,

Thread-2 27,

Thread-2 28,

Thread-2 26,

Thread-2 61,

Thread-2 50,

Thread-2 51,

Thread-2 40,

Thread-2 88,

Thread-2 69,

Thread-2 16,

Thread-2 76,

Thread-2 18,

Thread-2 81,

Thread-2 87,

Thread-2 84,

Thread-2 72,

Thread-2 24,

Thread-2 87,

Thread-2 41,

Thread-2 60,

Thread-2 18,

Thread-2 75,

Thread-2 31,

Thread-2 27,

Thread-2 41,

Thread-2 35,

Thread-2 26,

Thread-2 17,

Thread-2 74,

Thread-2 59,

Thread-2 16,

Thread-2 53,

Thread-2 90,

Thread-2 16,

Thread-2 75,

Thread-2 17,

Thread-2 55,

Thread-2 4,

Thread-2 11,

Thread-2 60,

Thread-2 32,

Thread-2 40,

Thread-2 31,

Thread-2 28,

Thread-2 5,

Thread-2 91,

Thread-2 58,

Thread-2 12,

Thread-2 66,

Thread-2 13,

Thread-2 43,

Thread-2 26,

Thread-2 48,

Thread-2 65,

Thread-2 80,

Thread-2 73,

Thread-2 2,

Thread-2 93,

Thread-2 78,

Thread-2 39,

Thread-2 42,

Thread-2 31,

Thread-2 66,

Thread-2 34,

Thread-2 30,

Thread-2 32,

Thread-3 11,

Thread-2 33,

Thread-3 19,

Thread-2 69,

Thread-2 79,

Thread-2 72,

Thread-2 83,

Thread-3 50,

Thread-3 3,

Thread-3 16,

Thread-3 72,

Thread-3 72,

Thread-3 72,

Thread-3 33,

Thread-3 22,

Thread-3 57,

Thread-3 28,

Thread-3 39,

Thread-3 23,

Thread-3 6,

Thread-3 52,

Thread-3 1,

Thread-3 53,

Thread-3 72,

Thread-3 12,

Thread-3 39,

Thread-3 22,

Thread-3 8,

Thread-3 18,

Thread-3 93,

Thread-3 44,

Thread-3 93,

Thread-3 58,

Thread-3 77,

Thread-3 18,

Thread-3 29,

Thread-3 87,

Thread-3 19,

Thread-3 87,

Thread-3 7,

Thread-3 50,

Thread-3 42,

Thread-3 79,

Thread-3 99,

Thread-3 35,

Thread-3 74,

Thread-3 38,

Thread-3 31,

Thread-3 8,

Thread-3 39,

Thread-3 32,

Thread-3 79,

Thread-3 9,

Thread-2 71,

Thread-2 79,

Thread-2 93,

Thread-2 21,

Thread-2 69,

Thread-2 80,

Thread-2 48,

Thread-2 48,

Thread-2 10,

Thread-2 94,

Thread-2 51,

Thread-2 81,

Thread-2 30,

Thread-2 83,

Thread-2 18,

Thread-2 0,

Thread-2 73,

Thread-2 5,

Thread-2 31,

Thread-2 60,

Thread-2 19,

Thread-2 64,

Thread-2 73,

Thread-2 88,

Thread-2 76,

Thread-2 46,

Thread-2 72,

Thread-2 87,

Thread-2 44,

Thread-2 96,

Thread-2 59,

Thread-2 9,

Thread-2 55,

Thread-2 6,

Thread-2 3,

Thread-2 86,

Thread-2 62,

Thread-2 18,

Thread-2 67,

Thread-2 2,

Thread-2 44,

Thread-2 87,

Thread-2 86,

Thread-2 32,

Thread-2 93,

Thread-2 97,

Thread-2 77,

Thread-2 100,

Thread-2 67,

Thread-2 99,

Thread-2 67,

Thread-2 76,

Thread-2 8,

Thread-2 92,

Thread-2 20,

Thread-2 0,

Thread-2 73,

Thread-2 55,

Thread-2 52,

Thread-2 70,

Thread-2 95,

Thread-2 82,

Thread-2 68,

Thread-2 89,

Thread-2 8,

Thread-2 28,

Thread-2 16,

Thread-2 75,

Thread-2 71,

Thread-2 9,

Thread-2 99,

Thread-2 5,

Thread-2 30,

Thread-2 48,

Thread-2 45,

Thread-2 94,

Thread-2 63,

Thread-2 6,

Thread-2 49,

Thread-2 57,

Thread-2 77,

Thread-2 4,

Thread-2 63,

Thread-2 87,

Thread-2 29,

Thread-2 30,

Thread-2 56,

Thread-2 46,

Thread-2 9,

Thread-2 41,

Thread-2 22,

Thread-2 49,

Thread-2 99,

Thread-2 96,

Thread-2 69,

Thread-2 27,

Thread-2 51,

Thread-2 74,

Thread-2 41,

Thread-2 75,

Thread-2 5,

Thread-2 18,

Thread-2 32,

Thread-2 49,

Thread-2 51,

Thread-2 35,

Thread-2 83,

Thread-2 39,

Thread-2 44,

Thread-2 2,

Thread-2 97,

Thread-1-Marjina

Thread-3-C-161

Thread-0-Alexandru

Thread-2-PCD

Firele de executie 1-4 s-au finisat

Process finished with exit code 0