

Another simulation for Barber Saloon (Sleeping Barber) in java

```
import java.util.concurrent.Semaphore;

public class BarberSaloon3 extends Thread{
    // *** for panel control configs ***
    static final int nClients= 16;           // nr of clients
    static final int nChairs=5;               // nr of chairs (barber chair also)
    //e.g., 1 chair for barber + 3 for clients waiting => 4 chairs permanently available

    static final int minTimeHairCut=1500;     // 15 minutes simulation
    static final int variableTimeCut=1500;     // 1500ms => 15 minutes
    static final int maxTimeBetweenCuts=100;   // short pause
    // static final int maxTimeBetweenClients=500; // busy saloon => e.g.:5 minutes
    static final int maxTimeBetweenClients=12000; //calmer saloon => e.g.: 120 minutes
    static final int MaxClientAttemptsToCutHair=3;
    static final int pauseBeforeJoins = (int)(0.5*nClients*minTimeHairCut);
    static int freeChairs= nChairs; // in the begin, all chairs are free (available)
    static int nrClientsDeparted= 0;
    static int nrHairCutsDone= 0;
    //3 semaphores are needed:

    Semaphore semafMutex=new Semaphore(1);      // semafMutex controls access to shared variable freeChairs
                                                // no Resource semaphore(4): it doesn't guarantee an order FIFO

    Semaphore semafBarberReady = new Semaphore(0); // when Barber is ready for new client semafBarberReady:=1
    Semaphore semafSaloonNotEmpty=new Semaphore(0); //begin: it's empty, false => 0
                                                // if saloon has clients semafSaloonNotEmpty:=1

    public Semaphore getSemafMutex() { return semafMutex; }
    public Semaphore getSemafSaloonNotEmpty() { return semafSaloonNotEmpty; }
    public void setSemafSaloonNotEmpty(Semaphore semafSaloonNotEmpty) {
        this.semafSaloonNotEmpty = semafSaloonNotEmpty;  }
    public void setSemafMutex(Semaphore semafMutex) {
        this.semafMutex = semafMutex; }

    public Semaphore getSemafBarberReady(){ return semafBarberReady; }
    public void setSemafBarberReady(Semaphore semafBarberReady) {
        this.semafBarberReady = semafBarberReady;  }

    // getters and setters
    public static int getNrHairCutsDone() { return nrHairCutsDone;  }
    public static void setNrHairCutsDone(int nrHairCutsDone) {
        BarberSaloon3.nrHairCutsDone = nrHairCutsDone; }

    public static int getnrClientsDeparted() { return nrClientsDeparted; }
    public static void setnrClientsDeparted(int nrClientsDeparted) {
        BarberSaloon3.nrClientsDeparted = nrClientsDeparted; }

    public static int getFreeChairs() { return freeChairs; }
    public static void setFreeChairs(int freeChairs) {
        BarberSaloon3.freeChairs = freeChairs; }

    private void displayIntro() {
        System.out.println(" *** Barber Saloon Simulation *** ");
        System.out.println(" \n Parameters (panel of configuration) *** ");
        System.out.println(" \n nClients= " + nClients + ", the nr total of clients ");
        System.out.println(" nChairs= " + nChairs + ", the nr total of chairs (> barber chair included).");
        System.out.println(" minTimeHairCut= " +(double) (minTimeHairCut/100.0)+", the minimum fixed time for hair cut (minutes).");
        System.out.println(" variableTimeCut= " +(double) (variableTimeCut/100.0)+", for max variable time in hair cut (minutes).");
        System.out.println(" maxTimeBetweenCuts= " +(double) (maxTimeBetweenCuts/100.0)+", for max time between hair cuts (minutes).");
        System.out.println(" maxTimeBetweenClients= " +(double) (maxTimeBetweenClients/100.0)+", for max arrival time between 2 clients (minutes).");
        System.out.println(" pauseBeforeJoins= " +(int)(pauseBeforeJoins/100.0) + ", the pause main thread do before doing final joins (minutes).");
        System.out.println(" MaxClientAttemptsToCutHair= " +MaxClientAttemptsToCutHair + ", the nr total of attempts to cut hair per client. ");
        System.out.println(" \n *** Begin Simulation Barber Saloon (Sleeping Barber) *** \n");
    };
}
```

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```
public BarberSaloon3() {} //constructor
public static void main(String[] args) {
    BarberSaloon3 bs= new BarberSaloon3();bs.start();}

private void startClientThreads(Client[] c, Barber b) {
    for(int i=0;i< nClients;i++) {
        c[i]=new Client(i,b); c[i].start();
        try {Thread.sleep((int)(Math.random()*maxTimeBetweenClients));}
    }
    catch(InterruptedException e) {};
}

private void clientsJoinedSummary(Client[] c) {
    try {Thread.sleep(pauseBeforeJoins );} catch(Exception e) {};
    while (getnrClientsDeparted()<nClients)
        try {Thread.sleep((int)(maxTimeBetweenClients));} catch(Exception e) {};
    try{System.out.println ("\n *** Summary of Clients (threads) finished (joined) *** ");
        catch(Exception e) {};
    for(int i=0;i< nClients;i++) {
        try {
            if ((i%2)>0) c[i].join();
            else System.out.print ("Client id: "+i+" finished => thread joined.");
        } catch(InterruptedException e) {};
    }
    System.out.println ("***\n");
    System.out.println ("*****\n");
    n");
}

public void run() {
    displayIntro(); Barber b= new Barber(); b.start();
    Client [] c =new Client[ nClients]; // thread pool
    startClientThreads(c, b); clientsJoinedSummary(c);
    System.exit(1); //end program
}

public class Barber extends Thread{ // class Barber
    private int timeCut=0;
    private Client barberClient=null;

    public int getTimeCut() { return timeCut; }

    public void setTimeCut(int timeCut) { this.timeCut = timeCut; }

    public Barber() {} //constructor

    public Client getBarberClient() { return barberClient; }

    public void setBarberClient(Client barberClient){this.barberClient = barberClient; }

    private void barberCutHair() {
        Client c= null; int pause =(int)(Math.random()*maxTimeBetweenCuts);
        // try to get client
        if (getFreeChairs()==nChairs)
            System.out.print ("\n >>> Barber maybe sleeps... saloon calm... Free chairs were "+ nChairs + ". ");
        try {getSemafSaloonNotEmpty().acquire();} catch(Exception e) {};

        while (c==null) { // barber has already a client via semafSaloonNotEmpty => get it...
            try {
                c= getBarberClient();
                if ((c!= null)&&(c.getTimeCut()>0)&&(c.isCut()==false)) {
                    System.out.print ("\n Barber begins hair cut of "+ (double) c.getTimeCut()/100+
                        " minutes. ClientId: "+c.getClientId()+" Freechairs = "+getFreeChairs()+" Cut? "+c.iscut());
                }
                Thread.sleep(c.getTimeCut());
            } else { System.out.print ("\n >>> Barber Ready, but Client not Ready. +
                + " Barber sleeps/pauses "+(double)(pause/100.0) +" minutes..."); }
        }catch(Exception e) //"
            {System.out.print(" Client was "+e.getMessage()+".");}
        try {Thread.sleep(pause);} catch(InterruptedException e) {};
    }
}
```

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```

}

public void run() { //begin: Barber gets ready
    try {getSemafBarberReady().release();}catch(Exception e) {};
    while(true) { barberCutHair(); }
}
// end run()
}
// end inner class Barber

```



```

public class Client extends Thread{ // class Client
private int clientId;
private Barber b;
private boolean cut = false; //begin: hair is not cut
private int timeCut; // timeCut (ms). Used to simulates time of Cut in minutes

public int getClientId() { return clientId; }
public void setClientId(int clientId) { this.clientId = clientId; }

public Client(int i, Barber b) { clientId=i; this.b=b; }

public int getTimeCut() { return timeCut; }
public void setTimeCut(int timeCut) {this.timeCut = timeCut; }
public Barber getB() { return b; }
public void setB(Barber b) { this.b = b; }

public void setCut(boolean cut) { this.cut = cut; }

public boolean isCut() { return cut; }

private void clientGetHairCut() {
    setTimeCut((int)(minTimeHairCut+ Math.random() * variableTimeCut));
    // random timecut; but it's the same timecut for client and for the barber
    try { b.setBarberClient(this);Thread.sleep((int)(Math.random()*maxTimeBetweenCuts));}
        catch(Exception e){};

System.out.print ("\n           Client id="+getClientId() + " begins hair cut of "
+ (double) (getTimeCut()/100.0) + " minutes.");
}

try { Thread.sleep(getTimeCut());} catch(InterruptedException e) {};
try {getSemafMutex().acquire();} catch(Exception e) {};
setFreeChairs(getFreeChairs()+1); //freeChairs++;

    this.cut= true; BarberSaloon3.setNrHairCutsDone(BarberSaloon3.getNrHairCutsDone()+1);
    System.out.print ("\n           Client id="+getClientId()+" ends hair cut of " +
(double)(getTimeCut()/100.0) +
" minutes. Now: Freechairs = " + getFreeChairs() + ". Now: Nr Hair Cuts Done = "+
BarberSaloon3.getNrHairCutsDone() + ".");
    try {getSemafMutex().release();} catch(Exception e) {};
}

private void displayTextClientArrives(int count) {
    String s; s="\n Client id= "+ getClientId() + " arrives";
    if (count==1) { s+=".";} else { s+=" again.";}
    System.out.print (s);
}

public void run() {
}

```

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```

int trials=1; // nr of attempts of client in order to get hair cut
while ((isCut()==false)&&(trials<=MaxClientAttemptsToCutHair)) {
    try {
        displayTextClientArrives(trials);

        //semaphore: to control access to nr of free chairs
        try {      getSemaphore().acquire(); } catch(Exception e) {};
        if (freeChairs> 0) {
            setFreeChairs(getFreeChairs()-1); //freeChairs--;
            try {getSemaphoreNotEmpty().release();}      catch(Exception e) {};
            System.out.print (" Client id="+ getClientId() +" seats and waits. Freechairs = " + getFreeChairs() + ". Trials: "+trials+ ".");
            try {getSemaphore().release();}      catch(Exception e) {};
            try {getSemaphoreBarberReady().acquire();} catch(Exception e) {};

            clientGetHairCut(); // hair cut; it also increases nr of free chairs
            // syncro: next client only gets hair cut after this client leaves barber chair
            try {getSemaphoreBarberReady().release();} catch(Exception e) {};
        }
        else { // assumption: client comes a bit later, up to MaxClientAttemptsToCutHair times...
            try {getSemaphoreMutex().release();}      catch(Exception e) {};
            System.out.println ("                                     Saloon full. Client id="+getClientId()+" comes maybe later. Freechairs = " +getFreeChairs() + ". Trials: "+trials+".");
            if(trials<MaxClientAttemptsToCutHair)
                try {Thread.sleep((int)( Math.random()*2*minTimeHairCut) );}
                catch(Exception e) {};
            }
        }
        trials++;
    }
    catch(Exception e) {};
}
}// end while

setNrClientsDeparted(getNrClientsDeparted()+1);
System.out.println ("\n*** Client id="+getClientId()+" departed. Freechairs = " + getFreeChairs() + ". Hair cut? "+isCut()+"."+
". Trials? "+ (int) (trials-1) + ". Clients departed: "+getNrClientsDeparted()+" ***");
}

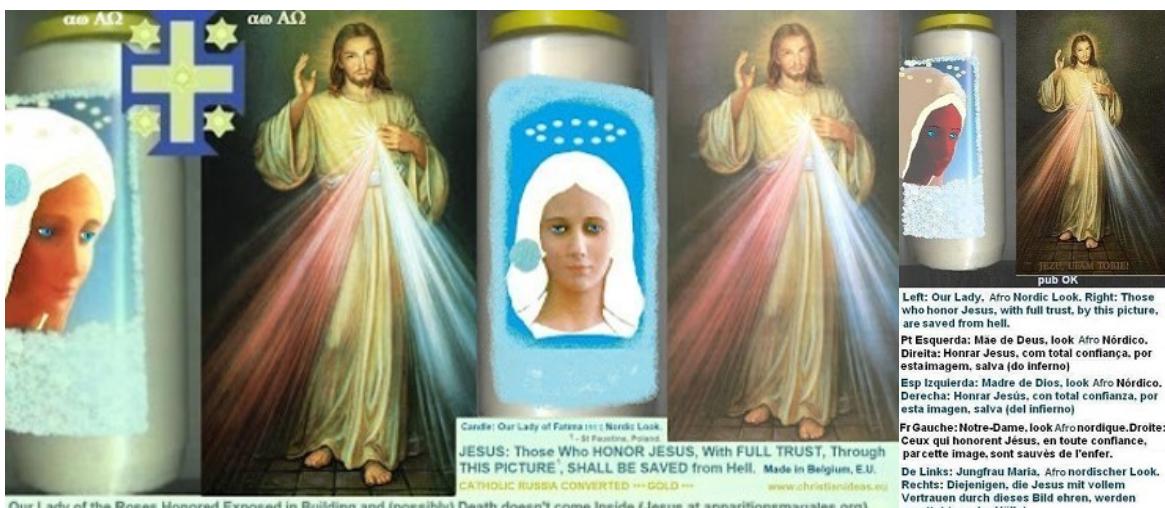
// end run()

}// end inner class Client
}// end BarberSaloon3 class
-----
```

K regards Web : <http://www.christianideas.eu> Cath Russia Converted Ideas, made in Belgium

Our Lady Of the Roses Honored Exposed and Death (possibly) Doesn't Come Inside

Traduction Chrome Google instructions en top de page **THOSE WHO HONOR JESUS WITH FULL TRUST THROUGH THIS PICTURE** (Jesus St Faustina with rays blue red) **SHALL BE SAVED** (from Hell). (image available www.christianideas.eu , if not visible)



Over <http://www.christianideas.eu/#about>:

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- **DISCERNMENT Criteria e.g. true faith catho conservative non naive: risk sect new age in Rome=> the Apocalypse... => better to be in state of grace go to confession asap after Benedict XVI**
-
- **Risk of Great Famine => news from heaven +- serious to e.g. Enoch, G Lomax, L de Maria, J Leary...**
-
- **Ideas (pro God) to (try) to resist Great Famine:**
 - [St Onofre with a Crumb of Bread](#)
 - [Blessed grapes L Maria + S Damiano](#)
-
- **MODERN LIES unmasked**
- (Lies of Darwinism, Fake Dates...): **History + demographics since 2000BC unmask fake dates. Hominids were hybrids which existed before great Flood**, confirms Jesus at [old apparitionsmariales.org](#) ... proactive Darwinism: ~mouse evolves=>bat=>vampire, thus ancestor man/whale etc goes to=>Batman=>Dracula within same ~million years...
-
- **DANGER OF APOCalypse after Benedict XVI => St Malachy prophecy:**
- CHIP 666 IN BODY, WW3, risk vaccines Pest Grippe with 666 smart particles /changing DNA RNA , throw virus (by plane) to kill vaccinated, “good” apoc new age sect, THE GLOBAL EMPIRE SOCIALIST COMMUNIST OF ANTICHRIST... => lots of apoc prophecy at [www.tldm.org](#) (for scenario Russia not converted)
-
- **ICON OF AUTOMATIC ETERNAL SALVATION** (also here above)
- **THOSE WHO TRUST 100% IN JESUS through THIS PICTURE SHALL BE SAVED**
(a Jesus of St Faustina with rays blue red)
-
- **PROTECTIONS against EVIL**
- but some suffering needed, sorry!
-
- **IMMORTALITY SUGGESTION**
- **TO PRAY GOD FOR ETERNAL SALVATION OF THOSE WHO NEED IT MOST,**
‘only’ CALMS DANGERS FOR LIFE.
-
- **GLBT + Modern Sex BEHAVIOURS UNHEALTHY, even KILL (+ideas)**
- *Communism of genders* attracts pests... Vaccin Papilloma protects only 70%... it's possible to attack unconscious, e.g., via discrete sorcery...
-
- **2+ BILLION MURDERS SINCE ~1960**
- **ABORTION** horrors... it attracts pests...
-
- **IDEAS AGAINST AGING & GRIPPE/Pest**

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- Fast & prayer (good against evil => Medjugorje) until it calms... (discreet fast & prayer or in solidarity group, prayer style (attentive daily) rosary or 7 sorrows... some food may help: avoid white sugars (fruits honey better if sweet food needed), but 1/8 glass whisky or vodka (=> let it act few minutes at the throat...), 1/5 glass vinegar, 2 cloves raw good garlic mixed e.g. in salad to help counter pest... + immortality suggestion in dramatic cases to calm a bit and in place of dying win forces to pray a rosary /7sorrows... + details links above below)
- **VACCINATED RISK TO DIE WITHIN 5 YEARS WITHOUT FORMULAS PRO GOD** (see above; formulas from news from heaven maybe work?)
-
- [IDEAS FOR A BETTER LOOK \(Ladies & Veil\)](#)
- How FAKE PUBS BRUNETTE & Erotica ARE KILLING CATHOLIC MARRIAGE FOR LIFE: Sarah x Agar... (because of unhappy husband: too few beautiful ladies to choose... so esthetics... correlations 30 years to detect trends: lady educating children in micro appart feels so happy as husband with lady with not cared esthetics... eats white sugared stuff=> blonde Xerazade look puts husbands away...) **Esthetic care is to have heart for husband.** [Comparative Tables](#) at section '[Our Lady of Fatima deserves better look'](#)
-
-
- [MODERN WOMAN IDEOLOGY UNMASKED](#)
- Demographic fall in West (+ Russia)... statistics (1950 or) 1970-2021: Germany x India...
-
- [LINKS TO some HEAVEN NEWS](#)
-
- Censured on [Twitter: @ ChristianIdeas](#)
-
- **BLOCKED AGAIN on Facebook (?)** (before: <https://www.facebook.com/christian.ideas> Last Comments/infos)
-
- Possible: T shirts Posters “Songs” Christian Ideas and/or Russia Converted Catholic ('made in Belgium') ...
-
- [School](#) (e.g. Maths: exercises, complements to Wikipedia...)

If You Want to Defend Good,

[PROTECTIONS against EVIL](#) (+ take cross) Recommended

[\(IMMORTALITY SUGGESTION](#) at 1st Sign of Danger,

[CONTRACT WITH GOD \(ICON AUTOMATIC SALVATION THROUGH DIVINE MERCY\)](#),
(picture above, right), daily [7 sorrows of Mary small prayer](#)

[Daily Rosary](#) , daily [crusade prayer 140 against FEARS](#), [daily crusade prayer 33](#), to be in state or

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go to confession cath priest asap etc.

+ details at www.christianideas.eu short prayers also below)

I try to pray for protection all pro God of planet until 00:00h, to try to desinfest, but it's better to complement it with 24h protective prayer, e.g., attentive rosary or (easier/shorter) 7 sorrows (here below).

It seems protection from God up to 00:00h for you and your dear ones, praying this small prayer Cr prayer 33 from [the Seal of the Living God \(better download it also\)](#)

“O my God, my loving Father, I accept with love and gratitude Your Divine Seal of Protection.

Your Divinity encompasses my body and soul for eternity.

I bow in humble thanksgiving and offer my deep love and loyalty to You, my beloved Father.

I beg You to protect me and my loved ones with this special Seal and I pledge my life to Your service forever and ever. I love You, dear Father. I console You in these times, dear Father.

I offer You the Body, Blood, Soul and Divinity of Your dearly beloved Son, in atonement for the sins of the world and for the salvation of all Your children. Amen.”

THE SEVEN SORROWS of Mary short prayer protection for 24h (1 hail mary with each meditation/sorrow), the sorrows:

1.The prophecy of Simeon: Jesus would be polemic and thoughts of Mary public

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2. The flight into Egypt, to protect baby God from king Herode

3. Child Jesus lost during 3 days (temple Jerusalem).

4. Way of the Cross.

5. Death of Jesus in cross.

6. Descent of the Body of Jesus from the Cross.

7. The burial of Jesus.

The Hail Mary:

"Hail Mary, full of grace, the Lord is with thee:

blessed art thou amongst women and blessed is the fruit of thy womb, Jesus.

Holy Mary, Mother of God, pray for us sinners now and at the hour of our death.

Amen." (Sources: <http://www.olrl.org/pray/> + www.tldm.org)