JAVA REVIEW PROGRAM

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Write a Java program to implement the producer consumer problem using java multithreading concept

Program

class Q {

int n;

boolean valueSet = false;

synchronized int get() {

while(!valueSet)

try {

wait();

}

catch(InterruptedException e) {

System.out.println("InterruptedException caught");

}

System.out.println("Got: " + n);

valueSet = false;

notify();

return n;

}

synchronized void put(int n) {

while(valueSet)

try {

wait();

}

catch(InterruptedException e) {

System.out.println("InterruptedException caught");

}

this.n = n;

valueSet = true;

System.out.println("Put: " + n);

notify();

}

}

class Producer implements Runnable {

Q q;

Producer(Q q) {

this.q = q;

new Thread(this, "Producer").start();

}

public void run() {

int i = 0;

while(true) {

q.put(i++);

}

}

}

class Consumer implements Runnable {

Q q;

Consumer(Q q) {

this.q = q;

new Thread(this, "Consumer").start();

}

public void run() {

while(true) {

q.get();

}

}

}

public class Demo {

public static void main(String args[]) {

Q q = new Q();

new Producer(q);

new Consumer(q);

System.out.println("Press Control-C to stop.");

}

}

Output



