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6. Write a program for congestion control using leaky bucket algorithm.
import java.util.Scanner;
public class LeakyBucket {
  public static void main(String[] args) throws InterruptedException {
     int n, incoming, outgoing, store = 0, bucketsize;
     Scanner scan = new Scanner(System.in);
     System.out.println("Enter bucket size, outgoing rate, number of inputs and incoming size");
     bucketsize = scan.nextInt();
     outgoing = scan.nextInt();
     n = scan.nextInt();
     incoming = scan.nextInt();
     while (n != 0) {
        System.out.println("Incoming size is " + incoming);
        if (incoming <= (bucketsize - store)) {
          store += incoming;
          System.out.println("Bucket buffer size is " + store + " out of " + bucketsize);
       } else {
          System.out.println("Packet loss: " + (incoming - (bucketsize - store)));
          store = bucketsize;
          System.out.println("Bucket buffer size is " + store + " out of " + bucketsize);
       }
        store -= outgoing;
        System.out.println("After outgoing: " + store + " packets left out of " + bucketsize + " in
buffer");
        n--;
        Thread.sleep(3000);
     }
     scan.close();
  }
}
```