

```
package thrishs;
```

```
import java.util.Scanner;
```

```
public class p8 {
```

```
    public static void main(String[] args)throws InterruptedException
    {
        Scanner in = new Scanner(System.in);
        int n,incoming,outgoing,bs,s=0;
        System.out.println("enter the bs,outgoing rate,inputs,incoming size");
        bs = in.nextInt();
        outgoing = in.nextInt();
        n=in.nextInt();
        incoming = in.nextInt();
        while(n!=0)
        {
            System.out.println("incoming size is"+incoming);
            if(incoming<=(bs-s))
            {
                s+=incoming;
                System.out.println("bucket buffer size is"+s+"out of"+bs);
            }
            else
            {
                System.out.println("packet lost =" +(incoming-(bs-s)));
                s=bs;
                System.out.println("bucket buffersize is"+s+" out of"+bs);
            }
            s-=outgoing;
        }
    }
}
```

```
System.out.println("after outgoing="+s+"packet left of"+bs+"in buffer");  
n--;  
Thread.sleep(3000);  
}  
in.close();  
}  
}
```