//……………………………………………………………………5………………………………………………………………………………….

*import* java.io.\*;  
*import* java.net.\*;  
  
*class* gbnServer{  
 *public static void* main(String args[])*throws* Exception{  
 ServerSocket ss=*new* ServerSocket(3333);  
 Socket s=ss.accept();  
 DataInputStream din=*new* DataInputStream(s.getInputStream());  
 DataOutputStream dout=*new* DataOutputStream(s.getOutputStream());  
  
 String str="",str2="";  
 *while*(!str.equals("stop")){  
 str=din.readUTF();  
 System.out.println("client says: "+str);  
 *if*(str.equals("-1")){  
 str2="negative";  
 dout.writeUTF(str2);  
 dout.flush();  
 }  
 *else*{  
 str2="+ve Ack sent";  
 dout.writeUTF(str2);  
 dout.flush();  
 }  
 }  
 din.close();  
 s.close();  
 ss.close();  
 }}

//……………………………………………………………client…………………………………………………………..

*import* java.io.\*;  
*import* java.net.\*;  
  
*class* gbnClient{  
 *public static void* main(String args[])*throws* Exception{  
 Socket s=*new* Socket("localhost",3333);  
 DataInputStream dis=*new* DataInputStream(s.getInputStream());  
 DataOutputStream dos=*new* DataOutputStream(s.getOutputStream());  
  
 String str="";  
 String str1="";  
 String msg[]={"10","20","30","-1","50","60"};  
 *int* i=0;  
 *while*(!str1.equals("negative")){  
 str=msg[i];  
 dos.writeUTF(str);  
 dos.flush();  
  
 str1=dis.readUTF();  
 System.out.println("Server says: "+str1);  
 i++;  
 }  
  
 *for*(*int* k=i;k<msg.length;k++){  
 dos.writeUTF("-1");  
 dos.flush();  
 str1=dis.readUTF();  
 System.out.println("Server says: "+str1);  
 }  
 i--;  
 msg[i]="40";  
 *for*(*int* k=i;k<msg.length;k++){  
 str=msg[k];  
 dos.writeUTF(str);  
 dos.flush();  
 str1=dis.readUTF();  
 System.out.println("Server says: "+str1);  
 }  
 dos.writeUTF("stop");  
 dos.flush();  
 dos.close();  
  
 s.close();  
 }}

// Output:

Of Server:

client says: 10

client says: 20

client says: 30

client says: -1

client says: -1

client says: -1

client says: 40

client says: 50

client says: 60

client says: stop

Of Client:

Server says: +ve Ack sent

Server says: +ve Ack sent

Server says: +ve Ack sent

Server says: negative

Server says: negative

Server says: negative

Server says: +ve Ack sent

Server says: +ve Ack sent

Server says: +ve Ack sent