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using System;
using System.Net;
using System.Net.Sockets;
using System.Text;
class RetryUdpClient
 private byte[] data = new byte[1024];
 private static IPEndPoint sender = new IPEndPoint(IPAddress.Any, 0);
 private static EndPoint Remote = (EndPoint) sender;
 private int SndRcvData(Socket s, byte[] message, EndPoint rmtdevice)
  int recv;
  int retry = 0;
  while (true)
     Console.WriteLine("Attempt #{0}", retry);
     try
     s.SendTo(message, message.Length, SocketFlags.None, rmtdevice);
     data = new byte[1024];
     recv = s.ReceiveFrom(data, ref Remote);
     } catch (SocketException)
     recv = 0;
     if (recv > 0)
     return recv;
     } else
     retry++;
     if (retry > 4)
        return 0;
      }
     }
   }
  public RetryUdpClient()
  string input, stringData;
   int recv;
   IPEndPoint ipep = new IPEndPoint(
           IPAddress.Parse("127.0.0.1"), 9050);
   Socket server = new Socket (AddressFamily.InterNetwork,
           SocketType.Dgram, ProtocolType.Udp);
   int sockopt = (int)server.GetSocketOption(SocketOptionLevel.Socket,
   SocketOptionName.ReceiveTimeout);
  Console.WriteLine("Default timeout: {0}", sockopt);
   server.SetSocketOption(SocketOptionLevel.Socket,
   SocketOptionName.ReceiveTimeout, 3000);
   sockopt = (int)server.GetSocketOption(SocketOptionLevel.Socket,
    SocketOptionName.ReceiveTimeout);
```

```
Console.WriteLine("New timeout: {0}", sockopt);
  string welcome = "Hello, are you there?";
  data = Encoding.ASCII.GetBytes(welcome);
  recv = SndRcvData(server, data, ipep);
  if (recv > 0)
    stringData = Encoding.ASCII.GetString(data, 0, recv);
    Console.WriteLine(stringData);
  } else
    Console.WriteLine("Unable to communicate with remote host");
    return;
  while(true)
    input = Console.ReadLine();
    if (input == "exit")
     break;
    recv = SndRcvData(server, Encoding.ASCII.GetBytes(input), ipep);
    if (recv > 0)
     stringData = Encoding.ASCII.GetString(data, 0, recv);
     Console.WriteLine(stringData);
    } else
     Console.WriteLine("Did not receive an answer");
  Console.WriteLine("Stopping client");
  server.Close();
 public static void Main()
  RetryUdpClient ruc = new RetryUdpClient();
 }
}
```