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DNS Server side
import java.net.*;
import java.util.HashMap;
public class DNSServer {
  private static HashMap<String, String> dnsTable = new HashMap<>();
  public static void main(String[] args) throws Exception {
    dunsTable.put("example.com", "192.168.1.1");
    DatagramSocket socket = new DatagramSocket(53); // DNS port
    byte[] receiveData = new byte[1024];
    while (true) {
       DatagramPacket receivePacket = new DatagramPacket(receiveData,
receiveData.length);
       socket.receive(receivePacket);
       String query = new String(receivePacket.getData(), 0, receivePacket.getLength());
       System.out.println("Received query: " + query);
       InetAddress clientAddress = receivePacket.getAddress();
       int clientPort = receivePacket.getPort();
       String responseIP = dnsTable.getOrDefault(query, "Not Found");
       byte[] responseData = responseIP.getBytes();
       DatagramPacket sendPacket = new DatagramPacket(responseData,
responseData.length, clientAddress, clientPort);
       socket.send(sendPacket);
    }
  }
}
DNS Client side
import java.net.*;
public class DNSClient {
  public static void main(String[] args) throws Exception {
```

DatagramSocket socket = new DatagramSocket();

InetAddress serverAddress = InetAddress.getByName("localhost");

byte[] sendData = "example.com".getBytes();

```
DatagramPacket sendPacket = new DatagramPacket(sendData, sendData.length, serverAddress, 53); // DNS port socket.send(sendPacket);

byte[] receiveData = new byte[1024];
    DatagramPacket receivePacket = new DatagramPacket(receiveData, receiveData.length);
    socket.receive(receivePacket);

String responseIP = new String(receivePacket.getData(), 0, receivePacket.getLength());
    System.out.println("Resolved IP: " + responseIP);

socket.close();
}
```