```
defmodule NameServer1 do
      @moduledoc """
                                                                                    The client and server parts.
      Very simple name server supporting two methods:
      add: Add a name and a place.
      find: Given a name, return the place or nil
      def start(name) do
8
                                                                                               Interface
        Process.register(spawn(NameServer1, :loop, [name, %{}]), name)
9
        :ok
10
11
      end
12
                                                                                    Functions called by the process
      def rpc(name, request) do
13
        send(name, {self(), request})
14
                                                                                    using the server.
15
16
        receive do
          {_name, response} -> response
17
18
        end
19
      end
20
      def loop(name, state) do
21
                                                                                                 Server
        receive do
22
          {from, request} ->
23
            {response, newState} = handleRequest(request, state)
24
                                                                                                The server.
            send(from, {name, response})
25
            loop(name, newState)
26
27
        end
28
      end
29
      defp handleRequest({:add, name, place}, state) do
30
                                                                                           Implementation
        newState = Map.put(state, name, place)
31
        {:ok, newState}
32
33
      end
                                                                                    Functions called by the server to
34
```

defp handleRequest({:find, name}, state) do

{state[name], state}

37

39

end

end

implement the server logic.

What happens if a method call crashes?

The whole server will crash! Not good



Lister: "I'm going to use my brains for the first time in my life."

Kryten: "Considering the circumstances, sir, do you really believe that's wise?"