Exercise 13

Due Oct 30 at 6pm   **Points** 100   **Questions** 1
Available until Oct 30 at 6pm   **Time Limit** None

Attempt History

	Attempt	Time	Score
LATEST	[Attempt 1](#)	21 minutes	100 out of 100

Score for this quiz: **100** out of 100
Submitted Oct 30 at 5:21pm
This attempt took 21 minutes.

Question 1	100 / 100 pts

Let's make a simple web server

- **nano server.php**

Use this text:

```php
<?php
$sock = socket_create(AF_INET, SOCK_DGRAM, SOL_UDP);
socket_bind($sock, '0.0.0.0', 10000);
for (;;) {
    socket_recvfrom($sock, $message, 1024, 0, $ip, $port);
    $reply = str_rot13($message);
    socket_sendto($sock, $reply, strlen($reply), 0, $ip, $port);
    $reply2 = str_rot13($reply);
    socket_sendto($sock, $reply2, strlen($reply2), 0, $ip, $port);
}
```

You may need to install php:

- **sudo apt install php**

Run the server:

- **php server.php**

You may also need to install netcat (nc):

- **sudo apt install netcat**

From a different terminal:

- **nc -u 127.0.0.1 10000**

Make a service file in the location for system services:

- **sudo nano /etc/systemd/system/rot13.service**

Put configuration details in file:

```
[Unit]

Description=ROT13 demo service

After=network.target

StartLimitIntervalSec=0


[Service]

Type=simple

Restart=always

RestartSec=1

User=pi

ExecStart=/usr/bin/env php /path/to/server.php


[Install]

WantedBy=multi-user.target
```

Stop current server from running if it is: **control+c**

Then:

- **systemctl start rot13**
- **nc -u 127.0.0.1 10000**

Show the TA or me the results! We'll give you the coder to enter for this quiz to indicate that you have completed it.

bitcoin

Quiz Score: **100** out of 100