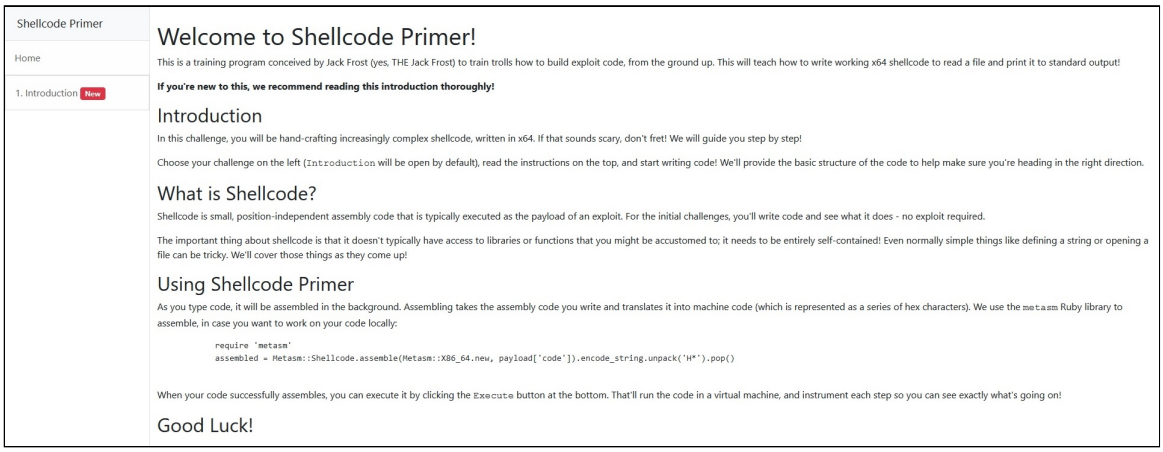
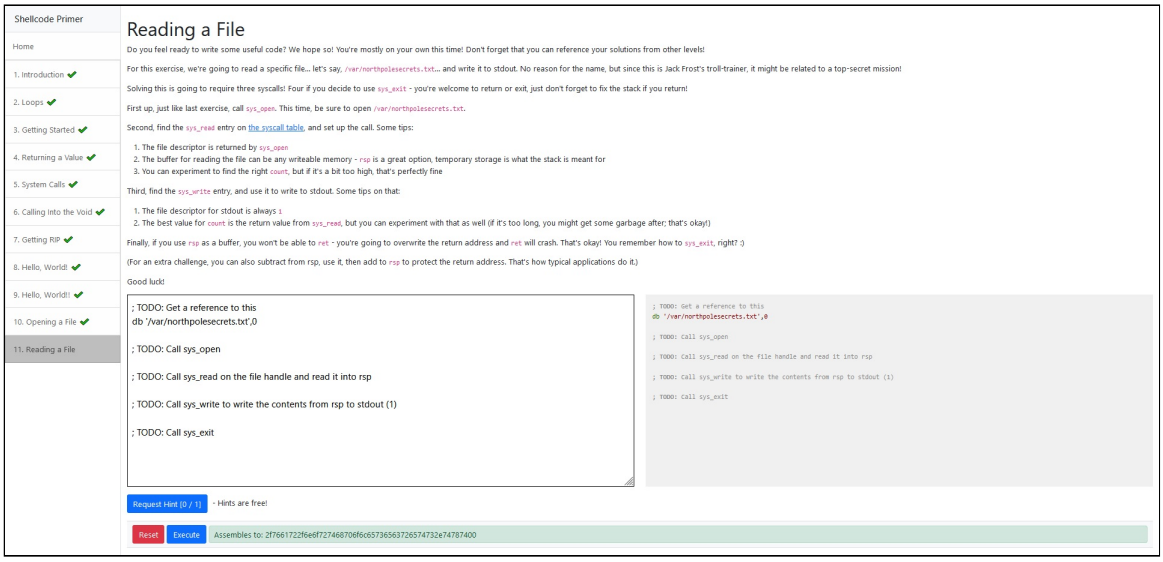
KringleCon 4: Calling Birds!

6) Shellcode Primer

1. Click the `Map` (Destinations) icon and then click `Jack's Office`
2. Click `Shellcode Primer`



3. Complete challenge 1 to 10
4. Click `11. Reading a File`



5. Click the `Request Hint [0/1]` button

6. Modify the contents of the code window to

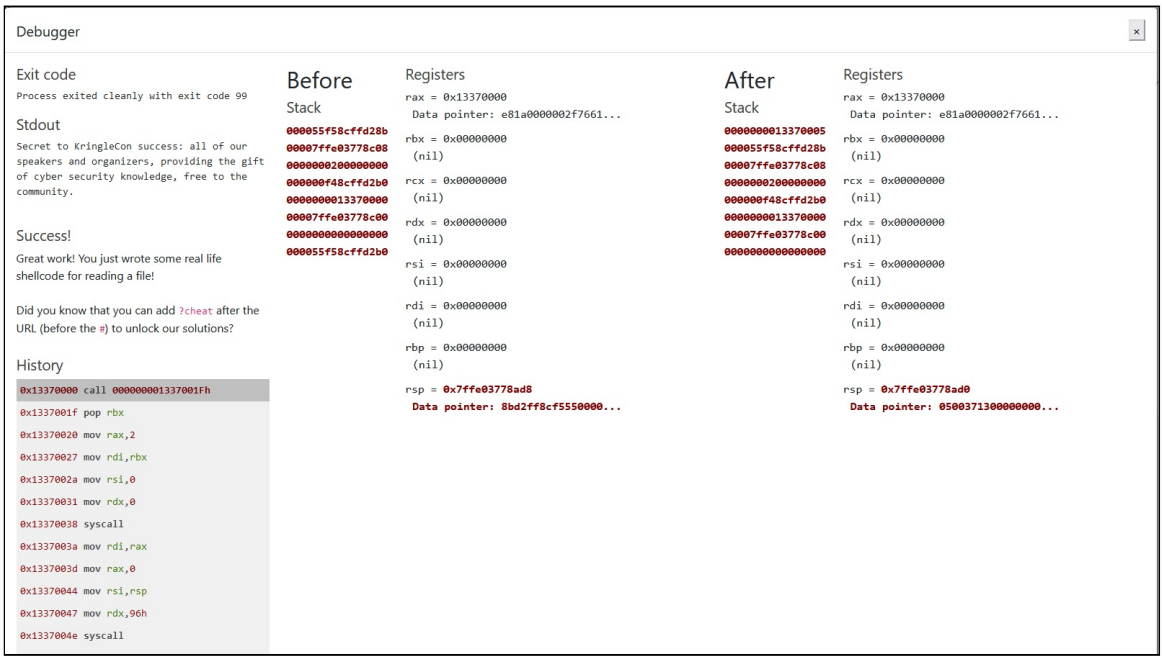
```
; TODO: Get a reference to this
call secret_ref
db '/var/northpolesecrets.txt',0
secret_ref:
pop rbx
; TODO: Call sys_open
mov rax, 2
mov rdi, rbx
mov rsi, 0
mov rdx, 0
syscall

; TODO: Call sys_read on the file handle and read it into rsp
mov rdi, rax
mov rax, 0
mov rsi, rsp
mov rdx, 150
syscall

; TODO: Call sys_write to write the contents from rsp to stdout (1)
mov rax,
mov rdi, 1
mov rsi, rsp
mov rdx, 150
syscall

; TODO: Call sys_exit
mov rax,  60
mov rdi, 99
syscall
```

7. Click the `Execute` button

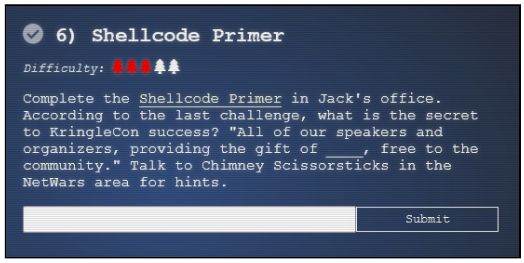


8. Close the Debugger window

```
Stdout

Secret to KringleCon success: all of our speakers and organizers, providing the gift of cyber security knowledge, free to the community.
```

9. Close `Shellcode Primer`
10. Click the `Tick` (Objectives) icon
11. Click `6) Shellcode Primer`



12. Type `cyber security knowledge`
13. Click the `Submit` button