

Basic Python Programming

[Session 2] Lab session

Contents

- RAID

RAID

RAID [1]

- There is a monster: **SOCKETMON**
 - very bad socket-monster!!
- You should defeat this monster, **together!**
 - how?

RAID [2]

- We can attack to SOCKETMON with socket programming
 - Sending message, we can attack!

```
31  
32  SomeSocket.send("Normal".encode())
```

RAID [3]

- **We can use two types of attack**
 - Normal: A normal attack (30 damage)
 - Lucky: Stronger attack, but sometimes fail...

| Chance | Damage |
|--------|-------------|
| 1 % | 1000 Damage |
| 9 % | 100 Damage |
| 40 % | 50 Damage |
| 36 % | 0 Damage |
| 4 % | DIED |

RAID [4]

- **If you died...**
 - The connection is closed
 - ...and meet some error
- **But it's okay, you can just re-run your program**

```
[System] SUPER UNLUCKY ATTACK... you died
Your skill name: s
Traceback (most recent call last):
  File "C:/Users/user/Documents/GitHub/EunSeong-Park.github.io/contents/2020 ITinerary/assets/session 2/net/lab client.py", line 10, in <module>
    msg = clientSocket.recv(1024).decode()
ConnectionAbortedError: [WinError 10053] An established connection was aborted by the software in your host machine
```

RAID [5]

- **Our goal is...**
 - Defeating SOCKETMON
- **Its HP is 1,000,000 !!**
 - ...Can we defeat?

RAID [6]

- **Party bonus: $\sqrt{\text{connected people}}$**
 - e.g. If 9 people succeeded to implement (so connected to the server), all of member get x 3 damage bonus
- **Thus, help your friend implement this program!**

RAID [7]

- **You implement...**
 - A client program
 - Message sending ("Lucky" / "Normal")
 - Message receiving (we will show the current HP of SOCKETMON)
- **Also, you can find a better (stronger / faster) way**
 - Hint: just infinite loop may not work :/ (we blocked)
 - But, except this, you can do anything.

RAID [8]

- We will show real-time status of SOCKETMON

```
[SYSTEM] Waiting...  
[SYSTEM] New Connection (current member: 1)  
[SYSTEM] Current HP: 999970 / 1000000  
[SYSTEM] Current HP: 999940 / 1000000  
[SYSTEM] Current HP: 999910 / 1000000  
[SYSTEM] Current HP: 999880 / 1000000  
[SYSTEM] New Connection (current member: 2)  
[SYSTEM] Current HP: 999838 / 1000000  
[SYSTEM] Current HP: 999796 / 1000000  
[SYSTEM] Current HP: 999754 / 1000000  
[SYSTEM] Current HP: 999712 / 1000000  
[SYSTEM] Current HP: 999670 / 1000000  
[SYSTEM] Current HP: 999600 / 1000000
```

Let's start!

- There is no skeleton code
- But the supplement will be useful

Server Info

- IP:
- Port: