Enumeration and Exploitation

Python 1 (Easy)

This challenge evaluates the contestant's ability understand and analyze vulnerabilities in code. A Python code snippet is provided and can be seen below:

```
#!/usr/bin/python

import sys

def main():
  if len(sys.argv) != 2:
    print "Invalid args"
    return
  password = sys.argv[1]
  builder = 0
  for c in password:
    builder += ord(c)
  if builder == 1000 and len(password) == 10 and ord(password[1]) == 83:
    print "correct"
  else:
    print "incorrect"

if __name__ == "__main__":
  main()
```

Question 1 can be solved by hand by calculating the totals for the ASCII character codes in the input. This process can be aided with some code. Below is a solution created with JavaScript.

```
> String.fromCharCode(83)
< "S"
> 1000 - 83
< 917
> 917 / 9
< 101.88888888888889
> 917 % 9
< 8
> String.fromCharCode(101)
< "e"
> String.fromCharCode(101 + 8)
< "m"
> var total = 0;
  'mSeeeeeeee'.split('').forEach(function(i) {
    total += i.charCodeAt(0);
  });
  console.log(total);
  1000
```

Question	Answer
What is a secret key that will pass validation?	mSeeeeeeee

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