YOU’RE THE COMPUTER

Your last assignment is to take the code below, and simply tell me what the output will be. First, I want to remind you of a few things in the code you may see but not recall.

When determining an if statement’s condition, != means ‘not equal to.’ For example:

```python
if(5 != 10):
    print('true')
```

The output for the above would ‘true’, because 5 is indeed not equal to 10.

Do not forget our math operators.

* -- multiplication

/ -- division

+ and – are addition and subtraction. Although the ‘+’ may be used to concatenate two strings. For example ‘Mr. ‘ + ‘Sabo’ = Mr. Sabo

** -- powers – For example 3 ** 4 is \(3^4\), which is \(3 \times 3 \times 3 \times 3 = 81\)

Lets look at one quick example of an if/else statement:

```python
if(10 < 5):
    print('I dislike math.')
else:
    print('Math is the best!!!')
```

In this case the output would be ‘Math is the best!!!’ The first condition of \(10 < 5\) is not true because 10 is clearly not less than 5. When the ‘if’ statement is true, you skip the code attached, and move to the else statement and perform it. Since 10 is not less than 5, we drop past the fisrt print, and perform what is attached to the else statement.

I hope this helps, and I hope to see everyone before too long!!!
**ASSIGNMENT:** For your assignment I simply want you to trace through the code, and tell me what this program outputs.

```python
a = 'Have a'
b = 'cannot'
c = 'again'
d = 'to'
e = ' in '
f = 'can'
g = 'September!'

w = 2 ** 10
x = 2
y = 75
z = 1024

print(a, end = '')
if ((x / 2) == 1):
    print('great ', end = '')
else:
    print('terrible ', end = '')
print('break! ')

if (w != z):
    print('I ' + f + ' wait ' + d, end = '')
else:
    print('I ' + b + ' wait ' + d, end = '')
print(' see', end = '')

if (y < (5 ** 5)):
    print(' you all ', end = '')
else:
    print(' myself ', end = '')

if('true'):
    print(c + e + g)
else:
    print('ever, ever, again!')
```