

# Daily Code Practice Midterm Review

1. What is the output of the following code?

```
def expression(a, b) :  
    return a * b
```

```
print expression(4,7)
```

2. What is the output of the following code?

```
def logic(a, b) :  
    return a != b
```

```
print logic(4,7)  
print logic(7,7)
```

3. What is the output of the following code?

```
def cond(a, b) :  
    if a == b:  
        return b + a  
    else:  
        return b - a
```

```
print cond (4,7)  
print cond (7,7)
```

4. What is the output of the following code?

```
def loops(num, count) :  
    total = 0  
    for i in range(count):  
        total = total + (num + 2)  
    return total
```

```
print loops (4,3)  
print loops (3,5)
```

5. What is the output of the following code?

```
def writelist(nums, index) :  
    nums[index] = 7
```

```
print writelist ([4,3,8,2,1,7],2 )  
print writelist ([3,5,4,6,2],1)
```

6. What is the output of the following code?

```
def readlist(nums) :  
    total = 0  
    for i in range(len(nums)):  
        total = total * nums[i]  
    return total
```

```
print readlist ([4,3,2,1])  
print readlist ([3,5,4])
```

7. What is the output of the following code?

```
def writeall(nums) :  
    for i in range(len(nums)):  
        nums[i] = - i
```

```
print writeall ([4,3,8,2,1,7])  
print writeall ([3,5,4,6,2])
```

8. What is the output of the following code?

```
def thirds(nums) :  
    total = 0  
    for i in range(len(nums)):  
        if nums[i] % 3 == 0:  
            total = total + nums[i]  
    return total
```

```
print thirds ([4,3,8,2,1,9])  
print thirds ([3,5,6,4,2])
```

9. What is the output of the following code?

```
def concat(str1, str2):  
    return str2+str1
```

```
print concat ("Star","Wars")
```

10. What is the output of the following code?

```
def bool(num1,num2) :  
    if num1 > 10:  
        return 1  
    elif num2 > 10:  
        return 2  
    else:  
        return 0
```

```
print bool(15, 4)  
print bool(2, 22)  
print bool(10,10)  
print bool(50,50)
```

11. What is the output of the following code?

```
def length(nums):  
    if len(nums) < 5:  
        return len(nums)  
    else:  
        return len(nums)-4
```

```
print length([3, 5, 7, 8, 9])  
print length([1,2,3,5,7,11])  
print length([2,4,6])
```

12. What is the output of the following code?

```
def index(word):  
    return word[2]+word[4]
```

```
print length("elephant")  
print length("hippo")  
print length("giraffe")
```

13. What is the output of the following code?

```
def losing_it(word):  
    newstr = ""  
    for char in word:  
        if char != "s":  
            newstr = newstr + char  
    return newstr
```

```
print losing_it ("Tests are fun")
```

14. What is the output of the following code?

```
def new_word(words):  
    newstr = ""  
    for w in words:  
        newstr = newstr + w[1]  
    return newstr
```

```
print new_word( ["blue", "magenta", "orange", "red"] )
```

15. What is the output of the following code?

```
def rangeList(x,y,z):  
    return range(x,y,z)
```

```
print rangeList(2,10,4)  
print rangeList(3,8,3)
```

16. What is the output of the following code?

```
def odd_mod(word):  
    newstr = ""  
    for i in range(len(word)):  
        if i % 2 == 1:  
            newstr = newstr + word[i]  
    return newstr
```

```
print odd_mod("Tests are fun")
```

17. What is the output of the following code?

```
def compare(a,b):  
    if a > b and b % 2 == 0:  
        return a % b  
    elif a > b or b % 2 == 0:  
        return b + a  
    elif a == b and a % 2 == 1:  
        return b * a  
    else:  
        return b % a
```

```
print compare(6,9)  
print compare(12,7)  
print compare(3,3)  
print compare(12,8)
```

18. What is the output of the following code?

<pre>def summit(nums,a,b):     total = 0     for i in range(len(nums)):         if i % 2 == 0 and (nums[i]&lt;a or nums[i]&gt;b):             total = total + nums[i]     return total</pre>	<pre>print summit([4, 3, 4, 2, 5, 2, 3,10,12],5,9)</pre>
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19. What is the output of the following code?

<pre>def rangeNewList(nums,a,b,c):     newlist = []     for i in range(a,b,c):         newlist.append(nums[i])     return newlist</pre>	<pre>print rangeNewList([3,1,6,9,4,0,4],2,5,2) print rangeNewList([0,1,2,3,4,5,6,7,8,9,10],1,8,3)</pre>
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20. What is the output of the following code?

<pre>def rangeNewStr(word,x, y):     newstr = ""     for i in range(x,y):         newstr = newstr + word[i]     return newstr</pre>	<pre>print rangeNewStr("Got this!",2,6)</pre>
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