1. (25 points.) Write a program that reads a string consisting of two digits using `input()`, for instance "53". It then prints the second digit, the number of times indicated by the first digit. So in our case the program would print 3333. Hint: use a counter and a `for c in s:` loop.

2. (10 points) In the following, state the type and value of each of the following expressions. If the expression contains an error, write `invalid` as the type and omit the value.

<table>
<thead>
<tr>
<th>EXPRESSION</th>
<th>TYPE</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>150/10.0</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>20 * 3 %4 // 2 - 5 // 5</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>(5 + 4.0)/3 *2 + 5 % 6</td>
<td>------</td>
<td>-------</td>
</tr>
</tbody>
</table>

3. (15 points) You may use the `ord()` and the `chr()` functions.
   (a) (5 points) In
   ```
   ch1 = 'c'
   ch2 = ch1 + '1'
   ```
   What is stored in `ch2`?
   (b) (5 points) In
   ```
   ch1 = '5'
   digit = int(ch1 + 3)
   ```
   What is the error here?
   (c) (5 points) Knowing that the ascii code for '0' is 48, fill in the blank so that '3' is stored in `ch1`
   ```
   digit = 51
   ch1 =__________;
   ```

4. (5 points) Circle all of the following that will not cause a compilation error?
a) silly = input("blah")
b) silly = int(input("blah"))
c) print( 'silly ' )
d) print ( "silly" )

5. (15 points) How many times would the for loops beginning with the following statements be executed? If there is a compilation error, type INVALID

```python
    a. for j in range(6,6):
    b. for j in range(6, 0, -1):
    c. for ch in range('1', '9', '1'):
    d. for j in range (0, 6 ) :
    e. for char in '523':
```

Evaluate the following:

(a) (7 >= 7) and not(9 == 9)    (b) not(4 >= 5) or not(2 < 3)
(c) not((5 == 9) and not(3 == 2)) (d) (6 <= 8) and (3 < 5) or (3 == 3)