Name: _____   Date: _____

Section: _____   Grade: _____

4.0 Problem Set #4 – Character Representation

4.1   Instruction: Arrange the following in descending order [12 pts]:

Orange !Orange orange 0range "o"range ORANGE	

4.2   Instruction: Identify the output of the following code snippets. [12 pts]:

```
char a = 'A';
char b = 'B';
```

`printf("%c", (a+8));`	
`printf("%c", (a-8));`	
`printf("%c", b);`	
`printf("%c", (b-20));`	
`printf("%c", (b-a));`	

4.3   Instruction: Complete the table below by identifying the result of the following bitwise operations. Write your answers in hexadecimal format. Do not forget to write the letter suffix on your answers [24 pts]:

NOT **1AEFh** =	
NOT **FACEh** =	
55h AND **AAh** =	
C8h AND **34h** =	
55h OR **AAh** =	
C8h OR **34h** =	
3Dh XOR **D3h** =	
FFh XOR **A5h** =	