

**EE 1910**

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**Homework 10**

1 – Provide the values after executing the following code snippets - each snippet is evaluated independently 50pts

given:

```
int val = 2;
```

```
int j;
```

```
int k;
```

---

```
for(j = 0; j < 6; j++)
```

```
    val = 2 * j;
```

0 2 4 6 8 10

val =

10

```
for(j = 0; j < 4; j++)
```

```
    val += 5;
```

7 12 17 22

22

```
for(j = 3; j >=0; j--)
```

```
    val -= 5 - j;
```

0 -3 -7 -12

-12

```
for(j = 0; j < 5; j++)
```

```
    for(k = 0; k <5; k++)
```

```
        val += 1;
```

3 4 5 6 7

8 9 ...

27

27

```
for(j = 0; j < 5; j++)
```

```
    for(k = 5; k > 0; k--)
```

```
        val += j + k;
```

7 11 14 16 17

23 28 32 ...

127

127

2 – Provide the values after executing the following code snippets - each snippet is evaluated independently  
50pts

given:

```
int j = 0;  
int k = 0;  
int val=2;
```

---

```
while(val){  
    j += 1;  
    val --;  
}
```

1 2

j = 2

```
while(j <= 5){  
    val++;  
    j++;  
}
```

3 4 5 6 7 8

val = 8

```
while(val = 2){  
    val++;  
    j++;  
}
```

= not == always true

val = ???

```
while(val + 2 < 5){  
    ++val;  
}
```

3

val = 3

```
j = 6;  
k = 0;  
while(j != k){  
    val += --j * k++;  
}
```

2 6 12

val = 12