COEN 11 - Practice I

Solutions on Monday

1. What is printed?

```c
int main ( )
{
    printf ("%d\n", a(5));
    return 0;
}

int a (int x)
{
    int y;
    y = b (x) + b (++x) + b (x++);
    return (y + x);
}

int b (int z)
{
    return (z * 10);
}
```

2. Show the evaluation of the following code:

```c
int a = 1, b = 2, c = 3;
int x = 10, y = 12, z = 4;
x = y++;
z += y += z + -x / (-z - 2) - b + -c;
```

3. Write a function to return the number of even values in a 2D array of size NROWSxNCOLS. The prototype of the function is:

```c
int count_even (int array[][NCOLS], int n);
```

4. Write a function to output (printf) all the strings starting with an uppercase letter from an array of strings. The array is a 2D char array of size NxSIZE. The array and the number of strings in the array are both passed to the function as arguments. The prototype of the function is:

```c
void list_uppercase (char strings[][SIZE], int counter);
```

5. Write a function to reverse the order of the elements in a string, so that the last element becomes the first, the-second-to-last becomes the second, and so on. The prototype of the function is:

```c
void reverse (char string[]);
```