

Data Structures (sec. A)

Quiz 2, Fall 2014

Date: Sep 17, 2014

Time: 10 mins.

Roll No: _____

- Q. Write a recursive function Print that accepts a positive integer, *num*, and prints a list of numbers from 0 to *num* both in reverse as well as in forward direction.

For example, if *num* is 5, then the function prints 5 4 3 2 1 0 0 1 2 3 4 5.

~~cont <= num; if n >= 0 and n~~
~~cont <= num; if n < 0 and n >= num~~

```
void Print (int num, int num2 = 0)
{
    if (num >= 0)
    {
        cout << --num;
        Print (num);
    }
    else
    {
        cout << -(--num);
    }
}
```

```
void Print (int num, int num2 = 0)
{
    if (num2 / 2 != num)
    {
        if (num2
        cout << num - num2;
        num2--;
    }
    else
```

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