

Homework 02

Due date: Sep 30, 2016

Question 1

Evaluate each of the following expressions in C:

```
int x=1, y=7, z=0; double i=1.5, j=-0.7; char a='m';
```

- | | | | |
|-----|--|------------------------------------|----------------|
| 1) | <code>x * y - z / i</code> | <code>7.0</code> | <code>1</code> |
| 2) | <code>3 * (2 * x + 1) / x</code> | <code>9</code> | <code>1</code> |
| 3) | <code>x && y z</code> | <code>1</code> | <code>1</code> |
| 4) | <code>(double) x / i * y</code> | <code>4.666667</code> | <code>1</code> |
| 5) | <code>a / y + (int) i / x</code> | <code>16</code> | <code>1</code> |
| 6) | <code>i > j & j > x !z</code> | <code>1</code> | <code>1</code> |
| 7) | <code>x+y--+z++</code> | <code>8</code> | <code>1</code> |
| 8) | <code>--x > z++ ? y-- : i * j</code> | <code>-1.05</code> | <code>1</code> |
| 9) | <code>a ? y - x : x - y</code> | <code>6</code> | <code>1</code> |
| 10) | <code>x = 5 ? (y = z) : (z = y)</code> | <code>0 (2 is accepted too)</code> | <code>1</code> |

Question 2

Find the output of each of the following statements :

```
char CC[]="+966";    char city[]="11"; char a='P';
```

- 1) `printf("%6d, %4d\n", 86, 1040);`
- 2) `printf("%12.5e\n", 30.253);`
- 3) `printf("%d\t%c\n", (int)30.253, (char)83.162);`
- 4) `printf("%s-%s-%d\n", CC, city, 4334567);`
- 5) `printf("%d:%d:%d %cM (%d/%d/%d)", 9,3,7,a,12,7,16);`

```
      86, 1040      2
      3.02530e+01    2
      30    S        2
+966-11-4334567     2
9:3:7 PM (12/7/16)  2
```