Problem Set 1,

due before 7.30pm, Wednesday September 21st

**1-Memory management and arrays (5 points)**

**a) Memory diagram:** (3 points)

**b) Printed message:** (2 points)

“1 7 2”

**2-Array practice (10 points)**

**a) shiftRight()** (5 points)

**b) indexOf()** (5 points)

**3-Recursion and the runtime stack (10 points)**

**a) Trace** (3 points)

**b) Returned value** (2 points)

**c) # of method frames on the stack when base case reached** (2 points)

**d) Infinite recursion** (3 points)

a:

b:

explanation:

**4-Rewriting a method (10 points)**