

## CMSC 113: Computer Science I while Exercises

For each problem below, write what the program would print to the window. You may find it useful to use a table to track the values of the variables in the programs.

```
1. public class Counter
   {
       public static void main(String[] args)
       {
           int count = 0;
           while(count < 5)
           {
               count = count + 1;
               System.out.println(count);
           }
       }
   }
```

count

--

```
2. public class ThatsOdd
{
    public static void main(String[] args)
    {
        int a = 255;

        while(a > 0)
        {
            System.out.println(a);
            a = a / 2;
        }
    }
}
```

a



```

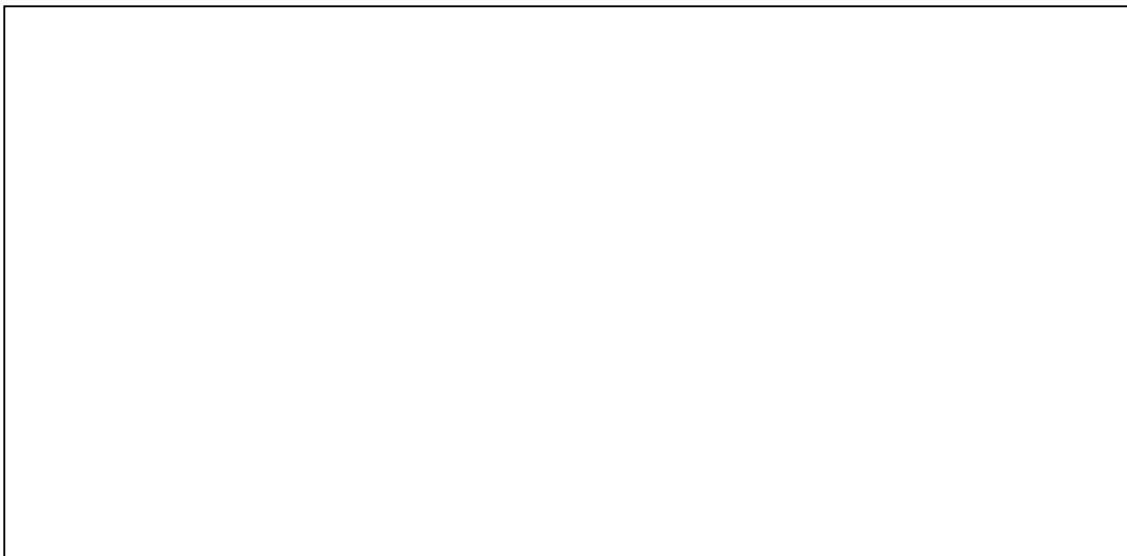
3. public class BackAndForth
{
    public static void main(String[] args)
    {
        int a = 0;
        int b = 8;

        while(b > 0)
        {
            if(a < 4)
            {
                a = a + b;
            }
            else
            {
                a = a - b;
            }
            b = b - 1;

            System.out.println(a);
        }
    }
}

```

a	b



4. public class LoopLoop

```
{  
  public static void main(String[] args)  
  {  
    int x = 0;  
    int y = 0;  
  
    while(y < 3)  
    {  
      x = 0;  
      while(x < 3)  
      {  
        System.out.println(x + ", " + y);  
        x = x + 1;  
      }  
      y = y + 1;  
    }  
  }  
}
```

x	y

