

Name _____ Period _____

1. Write the following for-loops as while loops	
(a)	(b)
<pre>int y; for(y = 5; y < 10; y+=2) { System.out.println(y); }</pre>	<pre>for(int z = 10; z > 0; z--){ System.out.println(z); }</pre>
<pre>int y = 5; while(y < 10){ System.out.println(y); y+=2; }</pre>	<pre>int z = 10; while(z > 0){ System.out.println(z); z--; }</pre>
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2. What is the output for each code segment below,	
(a)	(b)
<pre>int m = 0; int j = 0; do{ j *= -1; if(j >= 0){ m += 2; } j+=2; }while(m < 4); System.out.println(j);</pre>	<pre>int i = 5, j = 0; do{ for(j = 0; j < i; j++){ System.out.print("*"); } System.out.println(); i--; }while(i > 0);</pre>
2	<pre>***** ***** *** ** *</pre>
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3. The Decrypt class below accepts a number from the user and then converts the number to its character representation. Each pair of numbers in the provided number represent the ascii equivalent of a character and therefore can be used to identify the corresponding symbol.

In the example below, each pair of numbers in num map to a different symbol as shown,

num	pairs					ascii equivalents of pairs				
8773846772	87	73	84	67	72	W	I	T	C	H

Write the Decrypt class below. The final string of characters should be stored in String called result,

```

public class Decrypt{
    Run | Debug
    public static void main(String args[]){
        int num = Integer.parseInt(args[0]);
        String result = "";

        while(num > 0){
            char temp = (char)(num%100);
            result = temp + result;
            num /= 100;
        }

        System.out.println(result);
    }
}

```

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