Name ______Period_____

```
1. Write the following for-loops as while loops
                                             (b)
(a)
                                             \existsfor(int z = 10; z > 0; z--){
      int y;
      for(y = 5; y < 10; y+=2)
                                                     System.out.println(z);
    □{
                                              L}
           System.out.println(y);
                                                int z = 10;
   int y = 5;
                                                while(z > 0){
   while(y < 10){
      System.out.println(y);
                                                   System.out.println(z);
   y+=2;
                                                z--;
                                                }
                                                                                         /4
```

```
2. What is the output for each code segment below,
(a)
                                                       (b)
                                                       int i = 5, j = 0;
         int m = 0;
                                                       do{
         int j = 0;
                                                          for(j = 0; j < i; j++){
         do{
         j *= -1;
                                                            System.out.print("*");
           if(j >= 0){
                                                          System.out.println();
                  m += 2;
                                                          i--;
         j+=2;
                                                       }while(i > 0);
         \text{while}(m < 4);
         System.out.println(j);
                                                       ****
                                                       ****
                                                       ***
     2
                                                       **
                                                                                                             /4
```

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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	Ι	T	С	Н	

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);
}
```

/5