SWEN20003

Object Oriented Software Development Workshop 1 (Solutions)

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Problems

1. Write a program to print a triangle of some constant size. For example, a triangle of size 5 should look like this:

#####

Solution:

2. Write a program to print a diamond of some constant **odd** size. For example, a diamond of size 5 should look like this:

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Solution:

```
public class Program {
   public static void main(String[] args) {
     int N = 5;

   for (int i = 1; i <= N; i += 2) {
      int numSpaces = (N - i) / 2;
      for (int j = 0; j < numSpaces; ++j) {</pre>
```

```
System.out.print(" ");
            }
            for (int j = 0; j < i; ++j) {
                System.out.print("#");
            System.out.println();
        }
        for (int i = N - 2; i \ge 1; i = 2) {
            int numSpaces = (N - i) / 2;
            for (int j = 0; j < numSpaces; ++j) {</pre>
                System.out.print(" ");
            }
            for (int j = 0; j < i; ++j) {
                System.out.print("#");
            System.out.println();
        }
   }
}
```