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CS 210, Winnie Li

Homework 2

**5)**

public class Homework2 {

public static void main (String [] args) {

for (int i = 1; i <=5; i++) {

for (int j = 1; j <= i; j++) {

System.out.print("\*");

}

System.out.println();

}

}

}

**17)**

46

36

23

13

**23)**

public class Homework2 {

public static void main (String [] args) {

for (int i = 1; i <= 6 ; i++) {

System.out.println(18\*i-22);

}

}

}

**33)**

\*!\*!\*!\*!

\*!\*!\*!\*!

\*!\*!\*!\*!

\*!\*!\*!\*!

\*!\*!\*!\*!

\*!\*!\*!\*!

**35)**

The result is: 55

**36)**

a. 2 \* line + (2 \* SIZE)

b. 4 \* line + (3 \* SIZE)

c. -line + 92 \* SIZE + 3)

**37)**

|  |  |  |  |
| --- | --- | --- | --- |
| line | \ | ! | / |
| 1 | 0 | 22 | 0 |
| 2 | 2 | 18 | 2 |
| 3 | 4 | 14 | 4 |
| 4 | 6 | 10 | 6 |
| 5 | 8 | 6 | 8 |
| 6 | 10 | 2 | 10 |
|  | 2 \* line - 2 | -4 \* line + 26 | 2 \* line - 2 |

// This method outputs a figure using print statement and for loops.

public static void Draw() {

for (int line = 1; line <= 6; line++) {

// Prints backslashes

for (int i = 1; i <= 2 \* line - 2; i++) {

System.out.print("\\");

}

// Prints exclamation points

for (int i = 1; i <= -4 \* line + 26; i++) {

System.out.print("!");

}

// Prints forward slashes

for (int i = 1; i <= 2 \* line - 2; i++) {

System.out.print("/");

}

System.out.println();

}

}

}

**38)**

|  |  |  |  |
| --- | --- | --- | --- |
| line | \ | ! | / |
| 1 | 0 | 14 | 0 |
| 2 | 2 | 10 | 2 |
| 3 | 4 | 6 | 4 |
| 4 | 6 | 2 | 6 |
| Expression | 2 \* line - 2 | -4 \* line + 18 | 2 \* line - 2 |

public static void Draw() {

for (int line = 1; line <= 6; line++) {

// Prints backslashes

for (int i = 1; i <= 2 \* line - 2; i++) {

System.out.print("\\");

}

// Prints exclamation points

for (int i = 1; i <= -4 \* line + 18; i++) {

System.out.print("!");

}

// Prints forward slashes

for (int i = 1; i <= 2 \* line - 2; i++) {

System.out.print("/");

}

System.out.println();