Solution: Print a parallelogram pattern

Here is a solution to the coding challenge given in the previous lesson.

WE'LL COVER THE FOLLOWING ^

Solution
Solution explanation

Solution

Here is a code that will print a parallelogram pattern of # characters using two for loops:

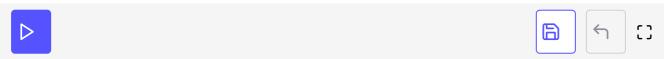
```
import std.stdio;

void printParallelogram() {
    int rows = 5;
    int cols = 8;

    for (int line = 0; line < rows; ++line) {
            for (int i = 0; i < line; ++i) {
                 write(' ');
            }

            writeln("#######");
        }

}</pre>
```



Code to print parallelogram pattern

Solution explanation

• Line 7:

```
for (int line = 0; line < rows; ++line) {
```

As explained in the for loop lesson, we do the preparation, condition check and the iteration on the same line. Condition check makes sure that the loop exits when the line variable reaches 5.

• Line 8 and 9:

```
for (int i = 0; i < line; ++i) {
    write(' ');</pre>
```

These two lines maintain the spaces to be printed on the screen to form the parallelogram pattern. As you can see, with the line number increment, the amount of space increases before the first *.

• Line 12:

```
writeln("######");
```

This line simply prints the * pattern once we have accounted for the spaces in that line to form the parallelogram pattern.

In the next lesson, you will learn another variant of the while loop, i.e. the do-while loop.