

1

the following calls to `printChars()`

```
printchars(1,' ',cout); printchars(6,'*',cout);  
printchars(12,' ',cout); printchars(6,'*',cout);  
cout << endl;
```

**Question 1:** Count the number of spaces and stars on each line for the above example and come up with a sequence of operations that will construct the figure. Repeat this process for a figure with a height of 9 and line thickness of 7.

**Question 2:** Looking at the above examples and the numbers in the function calls for drawing these, identify the pattern(s) in the sequence(s) of dashes and gaps. What would be the sequence for a height '**h**' and thickness '**t**'?

**Question 3:** Construct the loop for this process using **pseudocode** ( not on Raptor). Pseudocode is an artificial and informal language that helps programmers develop algorithms. This video is a helpful introduction.

**Question 4:** Write a C++ program that implements the flowchart using a **for** loop. Use the **printchars** function described above. In a script session, display (“cat”) the code, compile, and test it. Upload the answers to questions 1, 2 and 3, the **.cpp** file and the script file into a folder named **Lab5** inside your **CourseFiles** folder.