



Coding Practical

Summary

For this practical you will create an application that outputs ASCII-art triangles to the console. The application should run for 10 seconds. Once per second, the application should output a simple ASCII-art triangle, according to the requirements below.

Timeline

You have 60 minutes to complete this exercise.

Requirements

1. Build a console/terminal application.
2. You may not use any third-party libraries, except for unit testing.
3. The output process should run for exactly 10 seconds.
4. Once per second, the process should output a triangle to the console/terminal. Each side of the triangle should contain the same number of characters.
5. Each triangle should have sides that are 1 character longer than the length of the sides of the previously output triangle. The first triangle should have sides of length 1.
6. Output should look similar to the screenshot to the right.
7. Write unit tests against your triangle generation algorithm(s) to verify desired behavior.

Assistance

You may use any information source at your disposal for assistance in completing your submission.

Submission

Prior to the expiration of the 60-minute time limit, please package your application and email it to your interviewer. Be prepared to discuss your solution with your interviewer over the phone.

Questions & Clarifications

If you have any questions or need clarification on any of the requirements, ask your interviewer. **Good luck!**

```
Press enter to start...
1 second
*
2 seconds
* *
3 seconds
* * *
4 seconds
* * * *
5 seconds
* * * * *
6 seconds
* * * * *
* * * * *
7 seconds
* * * * *
* * * * *
* * * * *
8 seconds
* * * * *
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* * * * *
9 seconds
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* * * * *
* * * * *
10 seconds
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
Complete
```