



Whoo-hoo! You made it!

This brief assessment will help us determine your base level of knowledge to facilitate the conversations further. Don't stress too much! The guidelines are below.

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Please allocate up to 45 minutes to complete the exercise. Feel free to use C++, Java, C#, or whichever object-oriented language you feel most comfortable, just PLEASE make sure that the application runs. We would like your solution to demonstrate the application of OO concepts. A Graphical User Interface is not necessary, but will be considered as a bonus.

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1. Build an application that rolls a six-sided die to obtain a random value between 1 and 6.
2. Introduce the concept of a cup so that multiple dice can be rolled at one time.
3. Create a loaded die that, given a predetermined number, will land on that number 50% of the time (we can't be too obvious with our loaded die).

The output should look similar to this:

Rolling 1 die: 4  
Rolling 2 dice in a cup: 8  
Rolling 6 dice in a cup: 23  
Rolling 12 dice in a cup: 41  
Rolling 120 dice in a cup: 415

Rolling a loaded die set to '1': 1  
Rolling a loaded die set to '1': 3

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*It may take a little bit of time for the team to review your submission, but the sooner you complete the assessment, the higher the priority you will receive in terms of feedback.*

After you show off your technical chops, if selected for the next steps, the rest of the process is smooth-sailing from there. We'll have a fun time getting to know you in-person and for you to get better acquainted with us. ☺