

Computer Science I Lab

CMSC 120

- Cond/Loop

Topics

- Conditional statements
- Looping

Goals

- Compare expressions
- Perform multiple operations with a while loop
- Practice programming, debugging, and testing

Problems
and
Programs

Design, develop, compile, debug, execute, and test Java programs to do the following:

Required

1. Create an introduction to your game using print/println statements.
2. Inform the user they can move to one of four locations (e.g. four separate doors, north/south/east/west, etc) and prompt them to enter one of them.
3. Create a game loop using a while statement.
4. Create four void methods, one for each location they can move to.
5. In two of the methods, prompt the user for some kind of additional information and use that in your output.
6. In the other two methods, use random number generation. Use if/else if/else statements in one of them to compare the random number generated and take different actions depending on the value.
7. Inside your game loop, using if/else if/else, hook up the location they enter with the appropriate method. (Convert everything to lowercase!) Don't forget to have an exit case.

Optional

8. Come up with more game ideas!