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Lab 4

I have included my entire project folder with the source code. Please let me know if there are any issues.

Below I have recorded the records of the programs’ outputs:

**Question 1:**

Factorial of 2 is 2

Factorial of 3 is 6

Factorial of 4 is 24

Factorial of 5 is 120

Factorial of 20 is 2432902008176640000

Factorial of 21 is -4249290049419214848

I believe that the reason that factorial 21 (or 21!) does not display correctly in the java program when run is because the primitive type “int” can only hold a max value of 2,147,483,647. This value is less than 21!, which ends up being: 51,090,942,171,709,440,000. Because the value of “int” cannot reach this value, when the program is run, the result for 21! is not correct.

**Question 2:**

40 50 60 70 80