

Online Assignment on Branching and loops (B1)

Solve the problem below. You have 30 minutes. After you are done, rename the file containing your source code as your student ID (so, if your student ID is 2005031, the name of your file should be 2005031.c). Then submit that file to Moodle. Make sure you submit a file containing source code.

Failure to not follow these instructions will result in penalties.

Problem 1.

1. Consider the following series:

$$1 + \frac{3}{2} + \frac{9}{3} + 27 + \frac{81}{2} + \frac{243}{3} + 729 + \dots$$

Now take a number n as input.

- a. Output the n th term of this series. For example:

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Input (n)	Output
2	3/2
5	81/2
7	729

N.B: You have to follow the above output format for the fractions.

- b. Output how many terms are integers among the first n terms of the series.

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Input (n)	Output
5	3
6	4
7	5