
Warm-Up: Bugs on a Log

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Instructor's Handout

This handout contains solutions and notes.

Recompile without solutions before distributing.

Problem 1:

2013 bugs are on a meter-long line. Each walks to the left or right at a constant speed.

If two bugs meet, both turn around and continue walking in opposite directions.

What is the longest time it could take for all the bugs to walk off the end of the log?