Imagine three runners on a circular track of unit length at constant speeds of $\alpha$, $\beta$, and $\gamma$. If they all start at point $A$ on the track, when next will all runners be at point $A$? If $\alpha$, $\beta$, and $\gamma$ are rational numbers then the solution involves the least common multiple of their denominators. However what happens when they are irrational? Given a small positive number $\epsilon$, we show how to apply Euclid’s algorithm for the greatest common divisor of two integers to find a positive time (where all the runners have completed at least one lap) so that the runners are all within $\epsilon$ distance of $A$. (Received September 20, 2017)