

Problem #13 – Upstairs Downstairs



Isaac was walking down the stairs in his apartment building one day. Isaac began on the top floor and had already gone down seven steps when he saw Albert on the ground floor beginning to come up the stairs. Isaac continued to move down the stairs at a constant pace and greeted Albert as they passed. As Isaac travels down one step, Albert goes up two steps. Isaac was shocked to see that when he still had four steps remaining, Albert had already climbed the entire staircase.

How many steps does the staircase have?

Due date: Friday, Jan. 13th, 2012

Submit to Mr. Streit in person or email your solution. Please place the POW number and your name in the Subject line of your email.

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All work must be shown to explain your solution.