126.

$S_1 = 1 - 1 + 1 - 1 \ldots$

$S_2 = 1 - 2 + 3 - 4 \ldots$

$S = 1 + 2 + 3 + 4 + 5 \ldots$

$S_1 = 1 - 1 + 1 - 1 + \ldots$

$= \left(\frac{5}{4} - \frac{1}{4}\right) - \left(\frac{5}{4} - \frac{1}{4}\right) + \left(\frac{5}{4} - \frac{1}{4}\right) - \left(\frac{5}{4} - \frac{1}{4}\right) + \ldots$

$= 5/4 - 5/4 + 5/4 - 5/4 + \ldots$

$\Rightarrow 2S_1 = 5/4 - 5/4 + 5/4 - 5/4 + \ldots$

$+ \left(5/4 - 5/4 + 5/4 - 5/4 + \ldots\right)$

$= 5/4 \Rightarrow \boxed{S_1 = 5/8}$

$2S_2 = 1 - 2 + 3 - 4 + \ldots$

$+ (1 - 2 + 3 - 4 + \ldots) =$

$= 1 - 1 + 1 - 1 + 1 - \ldots = S_1 = 5/8$

$\Rightarrow S_2 = 5/16$

$S - S_2 = 1 + 2 + 3 + 4 + 5 + \ldots$

$- [1 - 2 + 3 - 4 + 5 - \ldots]$

$= 0 + 4 + 0 + 8 + 0 \ldots = 4S$

$\rightarrow 3S = -S_2 = -5/16 \Rightarrow$

$\Rightarrow S = -5/48$ □