

Define a sequence $\{a_n\}$ where each term corresponds to terms in the series

	a_{2k-1}	a_{2k}
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\dots	\dots	\dots
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When $n = 2m - 1$

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When $n = 2m - 1$

$$S_n = S_{2m-1} = a_1 + a_2 + a_3 + a_4 + a_5 + \dots + a_{2m-2} + a_{2m-1}$$

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When $n = 2m - 1$

$$\begin{aligned}
 S_n = S_{2m-1} &= a_1 + a_2 + a_3 + a_4 + a_5 + \dots + a_{2m-2} + a_{2m-1} \\
 &= \frac{1}{2} - \frac{2}{3} + \frac{2}{3} - \frac{3}{4} + \frac{3}{4} - \dots - \frac{m}{m+1} + \frac{m}{m+1}
 \end{aligned}$$

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$k = 3$	$\frac{3}{4}$	$-\frac{4}{5}$
\dots	\dots	\dots
$k = m - 1$	$\frac{m-1}{m}$	$-\frac{m}{m+1}$
$k = m$	$\frac{m}{m+1}$	$-\frac{m+1}{m+2}$

When $n = 2m$

$$\begin{aligned}
 S_n &= S_{2m} = a_1 + a_2 + a_3 + a_4 + a_5 + \dots + a_{2m-1} + a_{2m} \\
 &= \frac{1}{2} - \frac{2}{3} + \frac{2}{3} - \frac{3}{4} + \frac{3}{4} - \dots + \frac{m}{m+1} - \frac{m+1}{m+2}
 \end{aligned}$$

Define a sequence $\{a_n\}$ where each term corresponds to terms in the series

	a_{2k-1}	a_{2k}
$k = 1$	$\frac{1}{2}$	$-\frac{2}{3}$
$k = 2$	$\frac{2}{3}$	$-\frac{3}{4}$
$k = 3$	$\frac{3}{4}$	$-\frac{4}{5}$
\dots	\dots	\dots
$k = m - 1$	$\frac{m-1}{m}$	$-\frac{m}{m+1}$
$k = m$	$\frac{m}{m+1}$	$-\frac{m+1}{m+2}$

When $n = 2m$

$$\begin{aligned}
 S_n = S_{2m} &= a_1 + a_2 + a_3 + a_4 + a_5 + \dots + a_{2m-1} + a_{2m} \\
 &= \frac{1}{2} - \frac{2}{3} + \frac{2}{3} - \frac{3}{4} + \frac{3}{4} - \dots + \frac{m}{m+1} - \frac{m+1}{m+2} = \frac{1}{2} - \frac{m+1}{m+2}
 \end{aligned}$$