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So, if n if odd, there will be equal number of even and odd number in [0,n]. And, S=0 Otherwise, there will one more even than odd numbers. And, S=1

let
$$A = \sum_{x} H_{x}^{Sx} = B H_{x} \frac{\chi^{2}}{2} - \sum_{x} \frac{(x+1)^{2}}{2} \times \frac{1}{x} S_{x}$$

$$= H_{x} \frac{\chi(x-1)}{2} - \frac{1}{2} \sum_{x} \frac{(x+1)}{x} S_{x}$$

$$= \frac{1}{2} H_{x} \chi(x-1) - \frac{1}{2} \chi \frac{(x+1)\chi \chi}{2}$$

:
$$A = \frac{1}{2} \times (x-1) + x - \frac{1}{4} \times (x+1)$$

$$S = \sum_{x} (x) (x + y) \delta n$$

$$= x (\frac{1}{2} x (x-1) H_x - \frac{1}{4} x (x+1) - \sum_{x} (\frac{1}{2} (x+1) x H_x - \frac{1}{4} (x+1) (x+2)) \cdot 16$$

=
$$\frac{1}{2} x^{2} (x-1) + \frac{1}{4} x^{2} (x+1) - \frac{1}{2} x \sum_{x} x^{2} H_{x} - \frac{1}{2} \sum_{x} H_{x} + \frac{1}{4} \sum_{x} (x+2)^{2} \delta_{x}$$

$$S = \frac{1}{2} \pi^{2} (\alpha - 1) H_{2} - \frac{1}{4} \pi^{2} (\alpha + 1) - \frac{1}{2} S - \frac{1}{2} A + \frac{1}{4} \frac{(\alpha + 2)^{2}}{3}$$

$$= \frac{\sum x^{2} dx}{2}$$

$$= \frac{2}{3} + \frac{2}{2}$$

$$= \frac{2}{3} + \frac{2}{2}$$

$$= \frac{2(x-1)(x-2)}{3} + \frac{2(x-1)}{2}$$

$$= \frac{2(x-2)}{3} + 3$$

$$= \frac{2(x-2)}{6} + 3$$

$$= \frac{2(x-1)}{6} = \frac{2(x-1)}{6}$$

$$S = \frac{1}{2} x^{2} (x - M_{x} + x^{2} x^{2} (x + 1)) - \frac{1}{2} A + \frac{(x + 2)^{2}}{12}$$
where,
$$A = \frac{1}{2} x (x - 1) H_{x} - \frac{1}{4} x^{2} (x + 1)$$

$$S = \frac{1}{3} x^{2} (x - 1) H_{x} - \frac{1}{4} x^{2} (x + 1) + \frac{1}{4} x^{2} (x + 1)$$

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