

$$1 \leq a < b < c \leq 20$$

$\underbrace{\quad}_{x} \quad \underbrace{\quad}_{y} \quad \underbrace{\quad}_{z} \quad \underbrace{\quad}_{w}$

$$x + y + z + w = 19$$

$$\geq 0 \quad \geq 1 \quad \geq 1 \quad \geq 0$$

$$a + b > c$$

$$(1+x)c + y > 1+x+y+z$$

$$1+x > z$$

$$y = y' + 1, z = z' + 1$$

$$x + y' + z' + w = 17 \quad (c \neq 0 \text{ or } 1)$$

$$x > z'$$

$$\rightarrow \frac{4H_{17} - (2H_{17} + 2H_{15} + \dots + 2H_3 + 2H_1)}{2}$$