n(n+1)/2 = n(3n-1)/2 = n'(2n''-1)1 3 6 10 15 -4- - 7 - 10 - - 13 -1 5 12 22 +3 C Start @ High 4 Y 28 P=1'6n'-1) /2 =T 45 T(285) = 7(165) = 40755 = 4(143) 2T= = 0 8n'-1 Next = n+ T284 = 40470 = 285 +286 + 287 +288 ... T2= P 164 = 40 262 : 493 + 497 + 500 + 503 ... H 142 = 40 186 : 569 + 573 + 577 + 581 ... $\frac{2T}{n!} + 1 = 3n'$ To = Po = Ho + \$\phi\$ maybe: calc Tunil > 27+n' = 3n'2 next P, calc T: 100 1+n P' = 4 + 3(n-1) = 1+3n 2T = 312- n' calc next th H' = 1+47 2T= 1 (31'-1) $\frac{+}{2} = \frac{1}{1} = \frac{1}{2} = \frac{1}{1} = \frac{1}{2} = \frac{1}{1} = \frac{1}{1} = \frac{1}{3} = \frac{1$ etc...

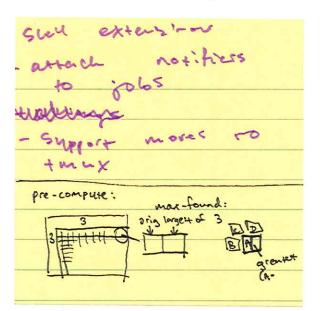
$$(t-285) + \frac{t(t+1)}{2} - \frac{285(285-1)}{2} = (p-165) + 3\left(\frac{P(p+1)}{2} - \frac{165(165-1)}{2}\right) = (h-143) + 4\left(\frac{h(h+1)}{2} - \frac{143(143-1)}{2}\right)$$

$$(t-285) + \frac{t(t+1)}{2} - 40470 = (p-165) + 3\left(\frac{P(p+1)}{2}\right) - 40590 = (h-143) + 4\left(\frac{h(h+1)}{2}\right) - 40612$$

$$t + \frac{t(t+1)}{2} = 40755 = p + \frac{3P(p+1)}{2} - 40755 = h + \frac{2h(h+1)}{10000} - 40755 \ge 0$$

$$\frac{t^2+3t}{2}-40755=\frac{3p^2+5p}{2}-40755=\frac{2h^2+3h-40755}{2}$$

Sums
$$\begin{cases} \frac{1}{2} t^2 + 3/t - 40755 = 6 \\ \frac{3}{2} p^2 + \frac{9}{3}p - 40755 = 6 \\ 2h^2 + 3h - 40755 = 6 \end{cases}$$



40735 + P_int + 4-int

make a "sieve of Frosteres"

plack Puntil P> H_max (memorise P-react)

if Pin H-set, put Pin P_set

pick T until T> H max (memorise T_neact)

if Tin P, winner!

.