

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

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

~~285~~

$$t + \frac{t(t+1)}{2} = 40755 = p + \frac{3p(p+1)}{2} - 40755 = k + \frac{2k(k+1)}{2} - 40755 \geq 0$$

~~2t + t^2~~

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

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

$$\frac{1}{2}t^3 + \frac{3}{2}t - 40755 = \emptyset$$

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

$$2k^2 + 3k - 40755 = \emptyset$$

Sums

$$\frac{1}{2}t^2 + \frac{3}{2}t = 40755$$

such extensions

- attach notifiers to jobs
- support moves to turn

pre-compute:

+1	-2	-3	-4	-5	
	1	3	6	10	15
	-4	-	-7	-	-10
+3	1	5		12	-
				22	-13
					35

Prob 4/5

$$T(28) = 7(165) = 5520h = 5520h = 11(143)$$

+ 286	+ 287	+ 288 ...	$T_1 =$
+ 497	+ 500	+ 503 ...	
+ 575	+ 577	+ 585 +	

$$\begin{aligned} \frac{2T}{n'} + 1 &= 3n' \\ 2T + n' &= 3n'^2 \\ \sqrt{3n'^2 - n'} & \\ 2T &= 3n'^2 - n' \\ 2T &= n'(3n' - 1) \end{aligned}$$

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maybe:
  calc T until >
    next P, calc
    next P, repeat
    if ==
      calc next H
      etc...

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[illegible]