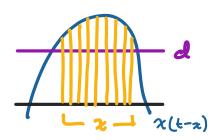
For a time, distance pair (t, d)We want to find integers x for which x(t-x) > d. (1)



This will be the integers in (x_a, x_b) , where x_a and x_b are the solutions of

$$2(t-2)-d = 0$$

 $-2^{2}+t2-d = 0$

$$\chi_{a}, \chi_{b} = \frac{-t \pm \sqrt{t^{2}-4(-1)(-d)}}{-2} = \frac{t \pm \sqrt{t^{2}-4d}}{2}$$

The minimum integer solution to (1) is:

$$x_{min} = \left\lfloor \frac{t - \sqrt{t^2 - 4d}}{2} \right\rfloor + 1$$

And the maximum is:

$$\mathcal{L}_{max} = \left\lceil \frac{t + \sqrt{t^2 - 4d}}{2} \right\rceil - 1$$

The number of solutions is:

$$x_{max} - x_{min} + 1 = \left[\frac{t + \sqrt{t^2 - 4d}}{2}\right] - \left[\frac{t - \sqrt{t^2 - 4d}}{2}\right] - 1$$