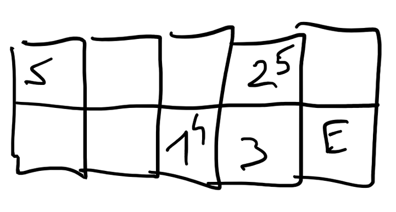
R-614

Monday, 5 April 2021 11:07



Cannot go if some i column blocked

i blocked if (1,i) filled

and one of (2,i-1), (2,i), (2,i+1)

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i: $(a_x \cdot x_{i-1} + b_x,\ a_y \cdot y_{i-1} + b_y)$

0: (x_0, y_0)

(x_s, y_s) → move by 1 in 1 second

collect in 0 seconds

$(x_0, y_0, a_x, a_y, b_x, b_y)$

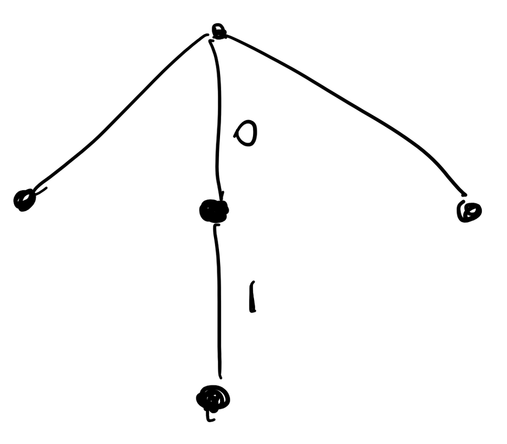
1 1 2 3 1 0

$(1,1) \rightarrow (3,3) \rightarrow (7,9) \rightarrow (15,27), \ldots$

(2,4)

$(x_0, y_0) \longrightarrow (a_x \cdot x_0 + b_x,\ a_y \cdot y_0 + b_y)$

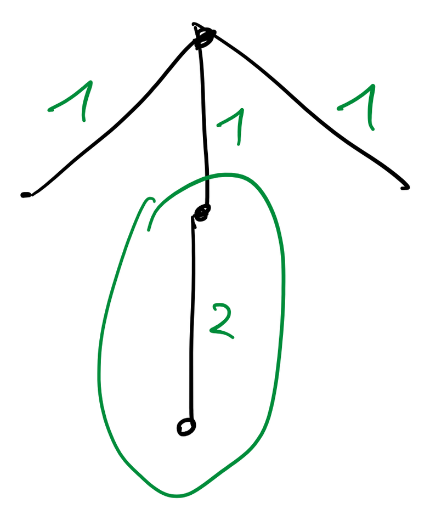
cost: $(a_x - 1) x_0 + b_x + (a_y - 1) \cdot y_0 + b_y$

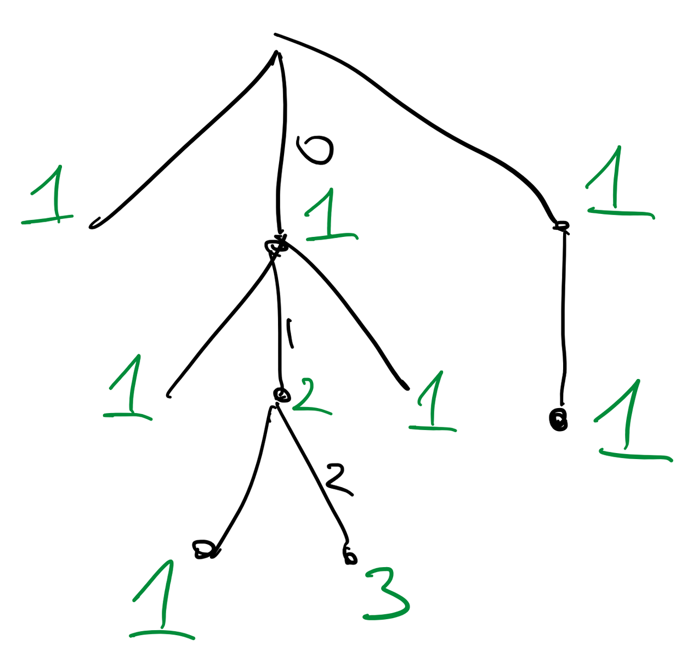


pick the longest path

score: 1 for each vertex not on that path

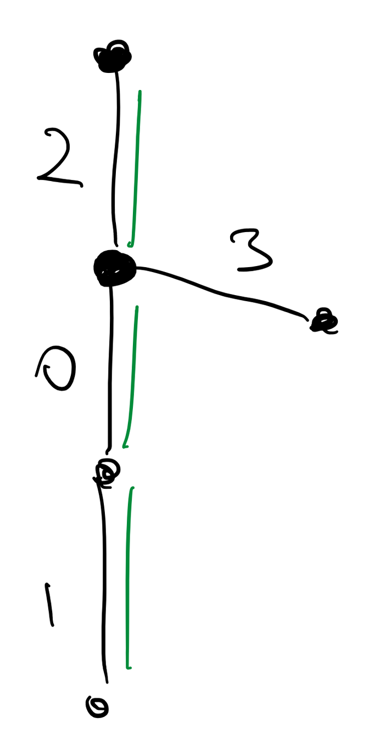
recursively for the path

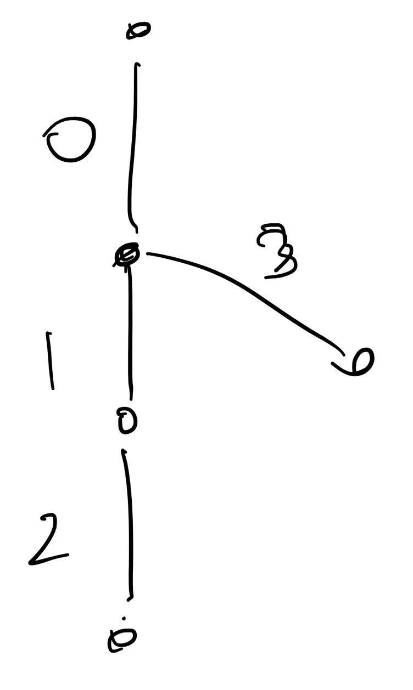




$1 + 2 + 3 \ldots + d$

$\frac{d+1}{2}$





$3 + 2 \cdot 2 + 3 \cdot 1$ $3 + 2 + 2 \cdot 1$

We want 0 on the "center" edge

Find centroid?

$2 \rightarrow 1 \rightarrow 0$

$\frac{1}{2}$ $\frac{1}{1}$ 1.5

$3 \rightarrow 2 \rightarrow 1 \rightarrow 0$

$\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{1}$ $1\frac{5}{6}$

$3 \rightarrow 1 \rightarrow 0$

$\frac{2}{3}$ $\frac{1}{1}$