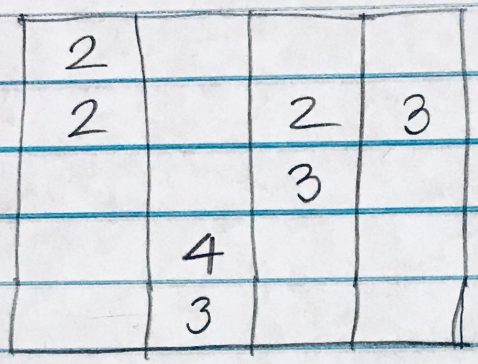
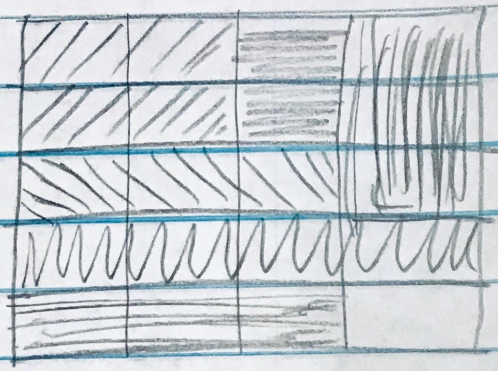
Analysis of Naive Linjat Solver

5 rows, 4 columns $\Rightarrow$ 20 cells.
7 intervals, total length 19



Problem


A Solution

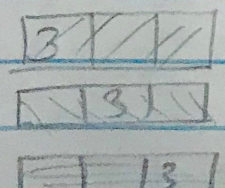
Algorithm: R = # of rows = 5
C = # of cols = 4
I = # of intervals = 7

1. $u \sim U[1,7]$
pick a random interval u out of $\{1,2,3,4,5,6,7\}$ without replacement.
2. Toss a coin with prob p ($p=\frac{1}{2}$ = fair coin, $p \neq \frac{1}{2}$, biased)

If heads, vertical fill
If tails, horizontal fill

iterate k times ($k=100$)

3. Interval of length n has n possibilities.



$n=3$

pick one of n possibles, as long as its inside matrix.

4. If cells empty, fill. Else, replace u in U.