06-Stack Stabilization

$R: [2, 5, \overset{10}{3}, \overset{12}{6}, \overset{...}{5}]$

$\underline{2} \quad \underline{5} \qquad \underline{6}$
↓ ↓   ↓

1 2   4

Constraints

~~$R_i < i$~~ $R_i >= i+1$

$R_i < R_{i+1}$

if $R_i > i$, reduce to $R_{i-1} + 1$?

if $R_i >= R_{i+1}$,   "

How to cascade?

$[2, 5, 3, 6, 5]$

↳

$[2, 3, 3, 4, 5]$

[2, 3, 3, 4, 5]

↳ [1, 2, 3, 4, 5]

IDEA 2
Work backwards

[2, 5, 3, 6, 5]

↑ — $R_i > i$ or early return -1

— $R_i < R_{i+1}$ or $R_i = R_{i+1} - 1$

↳ Skip for $i = R.length - 1$

↑ $6 < 5$ fails, decrease to $5 - 1 = 4$

↑ $3 < 4$

↑ $5 < 3$ ∴ 2

↑ $2 < 2$ ∴ 1

Answer 3 $O(n)$