
Algorithm 3

FindVisible_3($M[1..n]$, $B[1..n]$)

$n = \text{len}(M)$

 Initialize each line as invisible:

$V[i] = \text{False}$, $i = 1..n$

$V[1] = V[2] = \text{True}$

$\text{SubVis} = [1, 2]$ # index of current visible lines

 for $i = 3$, $i \leq n$, $i++$:

 while $\text{len}(\text{SubVis}) > 1$

$j = \text{len}(\text{SubVis})$

$(x, y) = \text{Intersection point of line } j \text{ and line } j-1 \text{ in SubVis}$

 if $y < M[i] \cdot x + B[i]$:

 Remove last line from SubVis

 else:

 break

 Append Y_i to SubVis

 for $k = 1$, $k < \text{len}(\text{SubVis})$, $k++$:

$V[\text{SubVis}[k]] = \text{True}$

 return V