vector⟨**Segments**⟩ (sorted by finishes)

vector⟨**Segments**⟩ (sorted by starts)

$v_{finish}[i]$

$v_{start}[i]$

[1]

[2]

get max start beetween checked elements

get max start beetween checked elements
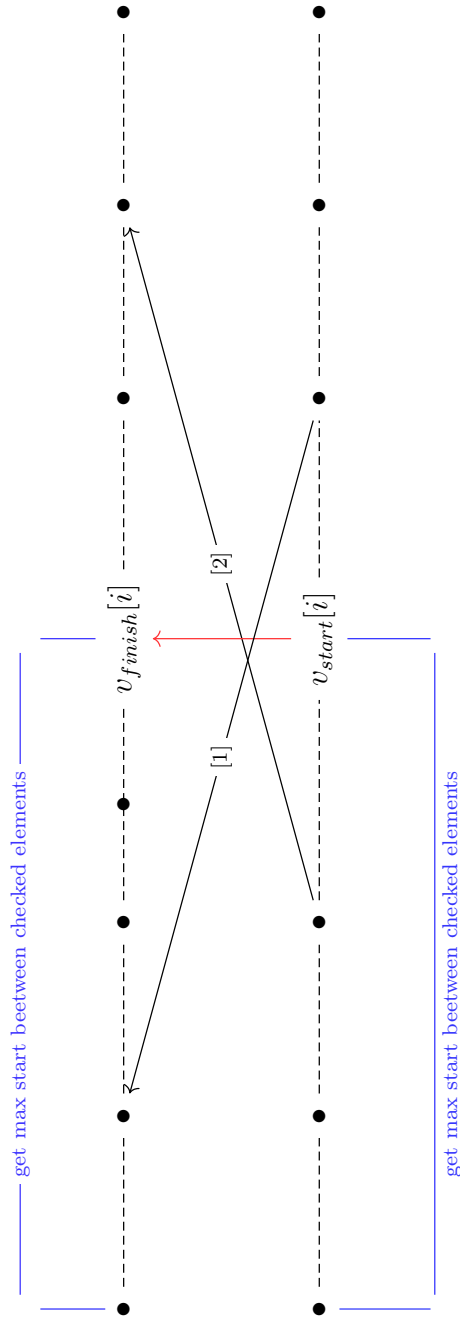
Two types of intersection: [1], [2] check: **O(1)**

step 1: sorting 2 vectors [O(nlgn)]

step 2: check intersections [O(n)]