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**Psuedo code for the method for finding the maximum bandwidth demand and the correspoding time.**

function find\_max\_bandwidth\_time\_demand(intervals):

// intervals = [starting time, ending time, bandwidth]

events <-- empty list

for each interval:

l, r, b <-- start, end, bandwidth

events <-- add (l, b)

events <-- add (r, -b)

sort events starting time by default

current\_bandwidth, max\_bandwidth, max\_time <-- 0

for each index of the length of the events mibus 1:

time, change <-- events[index]

next\_time <-- events[index + 1]

current\_bandwidth <-- add change

if current\_bandwidth >= max\_bandwidth:

max\_bandwidth <-- current\_bandwidth

max\_time <-- (time + next\_time) / 2

if index is out of range:

next\_time <-- events[i + 1][0]

if time < next\_time:

max\_time <-- (time + next\_time) / 2

else:

max\_time <-- time

else:

max\_time <-- time

return max\_time, max\_bandwidth