



fseudo code Case 1

The find max braking force

- Find fime it takes to decel from Vi to Umax

- Find distance it takes to decel

- assume constant decel

- Find new section length The section length

- initial sec length - distance to decel

- find new exit speed

- Find new braking force

- Find new time to decel

- Find new distance (ase 3a

- entry velocity is equal to max velocity
- Constant velocity

  u/ straight line decel model

Case 3b

- entry velocity is los than max velocity
- ???
- constantly find braking dutance
- speed up until max velocity

  us reached or distance

  left = brzking dustance

Pseudocode Case 36

- accelerate
- calculate braking distance
- if braking distance \geq distance left stop

  accelerating and start decel
- If umax (cached stop accel - go into constant velocity model
- Decel model Boolean for accelerate