Project: The students guide to the BusSystem!

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Background: This project is about finding the best bustrip, from one point to another.

Definitions of best bustrip:

First goal:	From an given arbitrary busstop A and time T, find the way to busstop B, wich is on the same busline as A and reaches B on time T' closest to T. No buschanges are allowed.
Second goal:	From an given arbitrary busstop A and time T, find the way to busstop B, wich reaches B on time T' closest to T. Buschanges are allowed.
Third goal:	From an given arbitrary busstop A and a given arrivaltime T', find the way to busstop B and time T (departuretime), wich reaches B before time T' with T'-T as small as possible. Buschanges are allowed.
Fourth goal:	From an given arbitrary position (x, y) and a given busstop destination B, finda) Closest departure busstop A, which can reach B.b) Closest departure busstop A, which can reach B on smallest possible time.c) Closest departure busstop A, which can reach B on smallest possible time before given arrival time T'.
Fifth goal:	From an given arbitrary position (x, y) and a given destination position (z,w), finda) Closest departure busstop A, which can reach busstop B closest to position (z,w).b) Closest departure busstop A, which can reach B on smallest possible time.c) Closest departure busstop A, which can reach B on smallest possible time before given arrival time T'.

Possible solution to fourth and fifth goal is to approximate a walking velocity and calculate the distance between position (x,y) and the busstops to get a more userfriendly solution with better arrivaltimes.