## Algorithm

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## Generating the dataset

```
##
     crowd dist_prev dist_next speed
                                               schd_time
                                                                    arr_time on_time
## 1
       28
                3.13
                         1.11 40.60 2018-04-30 11:00:00 2018-04-30 10:56:24
                                                                                   1
## 2
       26
                3.11
                         0.08 52.75 2018-01-12 22:00:00 2018-01-12 21:51:50
                                                                                   1
                         3.62 37.47 2018-06-28 01:00:00 2018-06-28 00:41:40
## 3
       31
                1.13
                                                                                   1
## 4
       20
                2.21
                         2.52 73.93 2018-02-24 22:00:00 2018-02-24 21:50:30
                                                                                   1
       27
                2.07
                         1.94 54.94 2018-12-07 10:00:00 2018-12-07 09:56:16
## 5
                                                                                   1
## 6
       23
                0.34
                          2.70 37.69 2018-01-10 19:00:00 2018-01-10 18:58:13
```

## Generating an algorithm to label the datasets

Each record is considered as a bus and the label is the indication given to the bus driver whether to maintain speed, decrease speed, or to increase represented by 0,1,2 respectively