```
void autoShiftGear(unsigned &rpm,
                                                    rpm \in [0, +\infty)..... Path constraints
                   unsigned &gear)
                                                    'rpm > 2500
if (rpm > 2500) {
  gear = gear + 1;
                                                                rpm \in [0, 2500]
                                       rpm \in (2500, +\infty)
  rpm = rpm * 0.5;
                                                rpm < 1000
  else if (rpm < 1000) {
  gear = gear - 1;
                                   rpm \in [0, 1000)
                                                          rpm \in [1000, 2500]
  rpm = rpm * 2;
```