<routes>

    <vType id="car" accel="2.6" decel="4.5" sigma="0.5" length="5" maxSpeed="70" color="0.8,0.8,0.8"/>

    <vType id="ambulance" accel="4.0" decel="6.0" sigma="0" length="7" maxSpeed="90" vClass="emergency" color="1,0,0"/>

    <route id="start\_amb\_1" edges="e5"/>

    <route id="start\_amb\_2" edges="e10"/>

    <route id="start\_amb\_3" edges="e1"/>

    <vehicle id="amb\_1" type="ambulance" route="start\_amb\_1" depart="0" />

    <vehicle id="amb\_2" type="ambulance" route="start\_amb\_2" depart="0" />

    <vehicle id="amb\_3" type="ambulance" route="start\_amb\_3" depart="0" />

    <flow id="bg\_traffic" type="car" begin="0" end="1000" number="100" from="e6" to="e2"/>

</routes>

Hexagon.rou.xml

<configuration>

<input>

<net-file value="hexagon.net.xml"/>

<route-files value="hexagon.rou.xml"/>

<additional-files value="hospitals.add.xml ,patients.add.xml"/>

</input>

<time>

<begin value="0"/>

<end value="1000"/>

</time>

<output>

<tripinfo-output value="tripinfo.xml"/>

</output>

</configuration>

Hexagon.sumocfg

<additional>

    <poi id="P01" type="patient" color="red" layer="6" x="100" y="340"/>

    <poi id="P02" type="patient" color="red" layer="6" x="390" y="173"/>

    <poi id="P03" type="patient" color="red" layer="6" x="295" y="10"/>

</additional>

Patients.add.xml

import os

import sys

import traci

import heapq

import random

import xml.etree.ElementTree as ET

from collections import Counter

# --- GA CONFIGURATION ---

GA\_CONFIG = {

    "population\_size": 50,

    "generations": 30,

    "mutation\_rate": 0.1,

    "crossover\_rate": 0.8,

    "tournament\_size": 5

}

# --- SIMULATION DATA ---

PATIENTS = {

    "P01": {"name": "Ravi Kumar", "condition": "Cardiac Arrest", "keywords": ["Cardiology"], "start\_edge": "e6"},

    "P02": {"name": "Sita Devi", "condition": "Multiple Fractures", "keywords": ["Trauma Care", "Orthopedics"], "start\_edge": "e1"},

    "P03": {"name": "Arjun Singh", "condition": "Severe Lacerations", "keywords": ["Emergency Care"], "start\_edge": "e3\_rev"},

}

HOSPITALS = {

    "H-01": {"name": "City\_General", "specialties": ["General Medicine", "Emergency Care"], "available\_beds": 12, "dest\_edge": "e6"},

    "H-02": {"name": "Green\_Heart", "specialties": ["Cardiology"], "available\_beds": 5, "dest\_edge": "e2"},

    "H-04": {"name": "Tumakuru\_Trauma", "specialties": ["Trauma Care", "Orthopedics"], "available\_beds": 3, "dest\_edge": "e4"}

}

AMBULANCES = ["amb\_1", "amb\_2", "amb\_3"]

# --- Dijkstra Pathfinding Class (UPDATED) ---

class DijkstraForSUMO:

    def \_\_init\_\_(self, net\_file):

        self.net\_file = net\_file

        self.graph, self.edge\_to\_junctions, self.junction\_pair\_to\_edge = {}, {}, {}

        self.\_build\_graph()

    def \_build\_graph(self):

        tree = ET.parse(self.net\_file)

        for edge in tree.getroot().findall('edge'):

            if edge.get('function') != 'internal':

                edge\_id, from\_node, to\_node = edge.get('id'), edge.get('from'), edge.get('to')

                lane = edge.find('lane')

                if lane is not None:

                    speed = float(lane.get('speed'))

                    travel\_time = float(lane.get('length')) / speed if speed > 0 else float('inf')

                    if from\_node not in self.graph:

                        self.graph[from\_node] = {}

                    self.graph[from\_node][to\_node] = travel\_time

                    self.edge\_to\_junctions[edge\_id] = (from\_node, to\_node)

                    self.junction\_pair\_to\_edge[(from\_node, to\_node)] = edge\_id

    def find\_shortest\_path(self, start\_edge, end\_edge):

        if start\_edge == end\_edge:

            return [start\_edge], 0

        if start\_edge not in self.edge\_to\_junctions or end\_edge not in self.edge\_to\_junctions:

            return None, float('inf')

        start\_node = self.edge\_to\_junctions[start\_edge][1]

        end\_node = self.edge\_to\_junctions[end\_edge][1]

        distances = {node: float('inf') for node in self.graph}

        distances[start\_node] = 0

        previous\_nodes = {node: None for node in self.graph}

        pq = [(0, start\_node)]

        while pq:

            dist, current\_node = heapq.heappop(pq)

            if dist > distances[current\_node]:

                continue

            if current\_node == end\_node:

                break

            if current\_node in self.graph:

                for neighbor, weight in self.graph[current\_node].items():

                    distance = dist + weight

                    if distance < distances[neighbor]:

                        distances[neighbor] = distance

                        previous\_nodes[neighbor] = current\_node

                        heapq.heappush(pq, (distance, neighbor))

        path\_nodes = []

        current = end\_node

        while current is not None:

            path\_nodes.insert(0, current)

            current = previous\_nodes[current]

        if not path\_nodes or path\_nodes[0] != start\_node:

            return None, float('inf')

        path\_edges = [self.junction\_pair\_to\_edge.get((path\_nodes[i], path\_nodes[i+1])) for i in range(len(path\_nodes) - 1)]

        final\_path = [start\_edge] + [edge for edge in path\_edges if edge]

        return final\_path, distances[end\_node]

    def find\_shortest\_path\_time(self, start\_edge, end\_edge):

        \_, time = self.find\_shortest\_path(start\_edge, end\_edge)

        return time

# --- Genetic Algorithm Functions ---

def create\_chromosome():

    hospital\_ids = list(HOSPITALS.keys())

    return [random.choice(hospital\_ids) for \_ in PATIENTS]

def calculate\_fitness(chromosome, router):

    total\_travel\_time = 0

    penalty = 0

    available\_ambulances = list(AMBULANCES)

    hospital\_assignments = Counter(chromosome)

    for h\_id, count in hospital\_assignments.items():

        if count > HOSPITALS[h\_id]["available\_beds"]:

            penalty += 10000 \* (count - HOSPITALS[h\_id]["available\_beds"])

    # This logic is complex because it has to find the best ambulance for each patient in the plan

    patients\_to\_assign = list(PATIENTS.keys())

    temp\_ambulances = list(AMBULANCES)

    # Create a temporary assignment of ambulances to patients to calculate total time

    assignments = {} # patient\_id -> ambulance\_id

    for \_ in range(len(patients\_to\_assign)):

        best\_amb, best\_pat, min\_time = None, None, float('inf')

        for amb in temp\_ambulances:

            for pat in patients\_to\_assign:

                time = router.find\_shortest\_path\_time(traci.vehicle.getRoadID(amb), PATIENTS[pat]["start\_edge"])

                if time < min\_time:

                    min\_time, best\_amb, best\_pat = time, amb, pat

        if best\_amb:

            assignments[best\_pat] = best\_amb

            patients\_to\_assign.remove(best\_pat)

            temp\_ambulances.remove(best\_amb)

    for i, patient\_id in enumerate(PATIENTS.keys()):

        hospital\_id = chromosome[i]

        hospital\_edge = HOSPITALS[hospital\_id]["dest\_edge"]

        patient\_edge = PATIENTS[patient\_id]["start\_edge"]

        if patient\_id in assignments:

            assigned\_amb = assignments[patient\_id]

            amb\_edge = traci.vehicle.getRoadID(assigned\_amb)

            time\_to\_patient = router.find\_shortest\_path\_time(amb\_edge, patient\_edge)

            time\_to\_hospital = router.find\_shortest\_path\_time(patient\_edge, hospital\_edge)

            total\_travel\_time += time\_to\_patient + time\_to\_hospital

    return total\_travel\_time + penalty

def selection(population, fitnesses):

    tournament = random.sample(list(zip(population, fitnesses)), GA\_CONFIG["tournament\_size"])

    return min(tournament, key=lambda x: x[1])[0]

def crossover(parent1, parent2):

    if random.random() < GA\_CONFIG["crossover\_rate"]:

        point = random.randint(1, len(parent1) - 1)

        child1 = parent1[:point] + parent2[point:]

        child2 = parent2[:point] + parent1[point:]

        return child1, child2

    return parent1, parent2

def mutate(chromosome):

    for i in range(len(chromosome)):

        if random.random() < GA\_CONFIG["mutation\_rate"]:

            chromosome[i] = random.choice(list(HOSPITALS.keys()))

    return chromosome

# --- Main Simulation Logic ---

def run\_simulation():

    sumo\_cmd = [os.path.join(os.environ.get("SUMO\_HOME", "."), "bin", "sumo-gui"), "-c", "hexagon.sumocfg", "--tripinfo-output", "tripinfo\_results.xml"]

    traci.start(sumo\_cmd)

    router = DijkstraForSUMO('hexagon.net.xml')

    plan\_executed = False

    while traci.simulation.getMinExpectedNumber() > 0:

        traci.simulationStep()

        if not plan\_executed and traci.simulation.getTime() >= 1:

            print("--- Running Genetic Algorithm to Find Optimal Plan ---")

            population = [create\_chromosome() for \_ in range(GA\_CONFIG["population\_size"])]

            for gen in range(GA\_CONFIG["generations"]):

                fitnesses = [calculate\_fitness(chrom, router) for chrom in population]

                new\_population = []

                for \_ in range(GA\_CONFIG["population\_size"] // 2):

                    parent1 = selection(population, fitnesses)

                    parent2 = selection(population, fitnesses)

                    child1, child2 = crossover(parent1, parent2)

                    new\_population.extend([mutate(child1), mutate(child2)])

                population = new\_population

                print(f"Generation {gen+1}, Best Time: {min(fitnesses):.2f}s")

            final\_fitnesses = [calculate\_fitness(chrom, router) for chrom in population]

            best\_plan = min(zip(population, final\_fitnesses), key=lambda x: x[1])[0]

            print("\n--- Optimal Plan Found! Dispatching Ambulances ---")

            # Execute the best plan found by the GA

            patients\_to\_assign = list(PATIENTS.keys())

            temp\_ambulances = list(AMBULANCES)

            assignments = {}

            for \_ in range(len(patients\_to\_assign)):

                best\_amb, best\_pat, min\_time = None, None, float('inf')

                for amb in temp\_ambulances:

                    for pat in patients\_to\_assign:

                        time = router.find\_shortest\_path\_time(traci.vehicle.getRoadID(amb), PATIENTS[pat]["start\_edge"])

                        if time < min\_time:

                            min\_time, best\_amb, best\_pat = time, amb, pat

                if best\_amb:

                    assignments[best\_pat] = best\_amb

                    patients\_to\_assign.remove(best\_pat)

                    temp\_ambulances.remove(best\_amb)

            for patient\_id, amb\_id in assignments.items():

                patient\_index = list(PATIENTS.keys()).index(patient\_id)

                hospital\_id = best\_plan[patient\_index]

                current\_amb\_edge = traci.vehicle.getRoadID(amb\_id)

                patient\_edge = PATIENTS[patient\_id]["start\_edge"]

                hospital\_edge = HOSPITALS[hospital\_id]["dest\_edge"]

                path\_to\_patient, \_ = router.find\_shortest\_path(current\_amb\_edge, patient\_edge)

                path\_to\_hospital, \_ = router.find\_shortest\_path(patient\_edge, hospital\_edge)

                if path\_to\_patient and path\_to\_hospital:

                    full\_route = path\_to\_patient + path\_to\_hospital[1:] if len(path\_to\_hospital) > 1 else path\_to\_patient

                    traci.vehicle.setRoute(amb\_id, full\_route)

                    print(f"Dispatching '{amb\_id}' to patient '{patient\_id}' and then to hospital '{HOSPITALS[hospital\_id]['name']}'.")

                else:

                    print(f"ERROR: Could not find a full path for '{amb\_id}' to serve patient '{patient\_id}'.")

            plan\_executed = True

    traci.close()

if \_\_name\_\_ == "\_\_main\_\_":

    if "SUMO\_HOME" not in os.environ:

        sys.exit("Please declare the environment variable 'SUMO\_HOME'.")

    run\_simulation()

traci\_runner.py

<for implementing ga>

========================================

Emergency Dispatch Summary

========================================

--- Mission 1 ---

Ambulance: amb\_1

Patient Details:

- ID: P01

- Name: Ravi Kumar

- Condition: Cardiac Arrest (Severity: high)

- Location: Edge 'e6'

Assigned Hospital:

- ID: H-02

- Name: Green\_Heart

- Specialties:Cardiology

- Destination:Edge 'e2'

----------------------------------------

--- Mission 2 ---

Ambulance: amb\_3

Patient Details:

- ID: P02

- Name: Sita Devi

- Condition: Multiple Fractures (Severity: high)

- Location: Edge 'e1'

Assigned Hospital:

- ID: H-04

- Name: Tumakuru\_Trauma

- Specialties:Trauma Care, Orthopedics

- Destination:Edge 'e4'

----------------------------------------

--- Mission 3 ---

Ambulance: amb\_7

Patient Details:

- ID: P05

- Name: Amit Patel

- Condition: Head Injury (Severity: high)

- Location: Edge 'e9'

Assigned Hospital:

- ID: H-04

- Name: Tumakuru\_Trauma

- Specialties:Trauma Care, Orthopedics

- Destination:Edge 'e4'

----------------------------------------

--- Mission 4 ---

Ambulance: amb\_8

Patient Details:

- ID: P07

- Name: Vikram Rathod

- Condition: Chest Pain (Severity: high)

- Location: Edge 'e8'

Assigned Hospital:

- ID: H-02

- Name: Green\_Heart

- Specialties:Cardiology

- Destination:Edge 'e2'

----------------------------------------

--- Mission 5 ---

Ambulance: amb\_2

Patient Details:

- ID: P03

- Name: Arjun Singh

- Condition: Severe Lacerations (Severity: medium)

- Location: Edge 'e3\_rev'

Assigned Hospital:

- ID: H-01

- Name: City\_General

- Specialties:General Medicine, Emergency Care

- Destination:Edge 'e6'

----------------------------------------

--- Mission 6 ---

Ambulance: amb\_6

Patient Details:

- ID: P04

- Name: Priya Sharma

- Condition: Breathing Difficulty (Severity: medium)

- Location: Edge 'e5'

Assigned Hospital:

- ID: H-01

- Name: City\_General

- Specialties:General Medicine, Emergency Care

- Destination:Edge 'e6'

----------------------------------------

--- Mission 7 ---

Ambulance: amb\_4

Patient Details:

- ID: P06

- Name: Anjali Gupta

- Condition: Minor Burn (Severity: low)

- Location: Edge 'e12\_rev'

Assigned Hospital:

- ID: H-01

- Name: City\_General

- Specialties:General Medicine, Emergency Care

- Destination:Edge 'e6'

----------------------------------------

--- Mission 8 ---

Ambulance: amb\_5

Patient Details:

- ID: P08

- Name: Meera Iyer

- Condition: Sprained Ankle (Severity: low)

- Location: Edge 'e2\_rev'

Assigned Hospital:

- ID: H-04

- Name: Tumakuru\_Trauma

- Specialties:Trauma Care, Orthopedics

- Destination:Edge 'e4'

----------------------------------------

Generating Detailed Dispatch Report...

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MISSION DETAILS FOR: P01 (serviced by amb\_1)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 48.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 65.12 s

- Actual Time Taken: 48.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 904.55 m

- Actual Distance Traveled: 609.49 m

=============================================

MISSION DETAILS FOR: P02 (serviced by amb\_3)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 122.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 62.82 s

- Actual Time Taken: 122.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 872.55 m

- Actual Distance Traveled: 750.02 m

=============================================

MISSION DETAILS FOR: P05 (serviced by amb\_7)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 106.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 61.67 s

- Actual Time Taken: 106.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 856.55 m

- Actual Distance Traveled: 642.12 m

=============================================

MISSION DETAILS FOR: P07 (serviced by amb\_8)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 42.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 48.64 s

- Actual Time Taken: 42.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 675.64 m

- Actual Distance Traveled: 530.24 m

=============================================

MISSION DETAILS FOR: P03 (serviced by amb\_2)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 71.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 74.69 s

- Actual Time Taken: 71.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 1037.46 m

- Actual Distance Traveled: 832.98 m

=============================================

MISSION DETAILS FOR: P04 (serviced by amb\_6)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 44.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 52.10 s

- Actual Time Taken: 44.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 723.64 m

- Actual Distance Traveled: 566.20 m

=============================================

MISSION DETAILS FOR: P06 (serviced by amb\_4)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 150.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 85.41 s

- Actual Time Taken: 150.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 1186.37 m

- Actual Distance Traveled: 1011.46 m

=============================================

MISSION DETAILS FOR: P08 (serviced by amb\_5)

=============================================

Timeline:

- Journey Started (Depart Time): 0.00 s

- Reached Hospital (Arrival Time): 125.00 s

Time Comparison (Full Trip):

- Estimated Ideal Time: 88.87 s

- Actual Time Taken: 125.00 s

Distance Comparison (Full Trip):

- Estimated Route Distance: 1234.37 m

- Actual Distance Traveled: 1044.62 m

20th oct 2025(Sunday mid night(home))

<?xml version="1.0" encoding="UTF-8"?>

<!-- generated on 2025-10-09 18:21:57 by Eclipse SUMO netconvert Version 1.24.0

<netconvertConfiguration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://sumo.dlr.de/xsd/netconvertConfiguration.xsd">

<input>

<node-files value="hexagon.nod.xml"/>

<edge-files value="hexagon.edg.xml"/>

</input>

<output>

<output-file value="hexagon.net.xml"/>

</output>

</netconvertConfiguration>

-->

<net version="1.20" junctionCornerDetail="5" limitTurnSpeed="5.50" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="http://sumo.dlr.de/xsd/net\_file.xsd">

<location netOffset="200.00,173.20" convBoundary="0.00,0.00,400.00,346.40" origBoundary="-200.00,-173.20,200.00,173.20" projParameter="!"/>

<edge id=":n1\_0" function="internal">

<lane id=":n1\_0\_0" index="0" speed="11.73" length="19.04" shape="306.16,338.94 303.21,342.90 299.62,345.73 295.36,347.43 290.46,348.00"/>

</edge>

<edge id=":n1\_1" function="internal">

<lane id=":n1\_1\_0" index="0" speed="7.40" length="7.21" shape="306.16,338.94 303.08,342.94 301.09,343.80"/>

</edge>

<edge id=":n1\_2" function="internal">

<lane id=":n1\_2\_0" index="0" speed="3.65" length="1.44" shape="306.16,338.94 304.86,339.58"/>

</edge>

<edge id=":n1\_9" function="internal">

<lane id=":n1\_9\_0" index="0" speed="7.40" length="9.59" shape="301.09,343.80 300.00,344.27 296.92,342.93 293.84,338.94"/>

</edge>

<edge id=":n1\_10" function="internal">

<lane id=":n1\_10\_0" index="0" speed="3.65" length="3.23" shape="304.86,339.58 303.97,339.52 303.48,338.78 303.39,337.34"/>

</edge>

<edge id=":n1\_3" function="internal">

<lane id=":n1\_3\_0" index="0" speed="5.67" length="9.24" shape="296.61,337.34 298.31,339.53 300.00,340.27 301.69,339.54 303.39,337.34"/>

</edge>

<edge id=":n1\_4" function="internal">

<lane id=":n1\_4\_0" index="0" speed="7.40" length="16.80" shape="296.61,337.34 298.54,342.00 298.15,345.33 295.46,347.33 290.46,348.00"/>

</edge>

<edge id=":n1\_5" function="internal">

<lane id=":n1\_5\_0" index="0" speed="3.65" length="4.67" shape="296.61,337.34 296.52,338.78 296.03,339.52 295.14,339.58 293.84,338.94"/>

</edge>

<edge id=":n1\_6" function="internal">

<lane id=":n1\_6\_0" index="0" speed="5.67" length="9.24" shape="290.46,344.80 293.21,344.43 294.69,343.33 294.90,341.50 293.84,338.94"/>

</edge>

<edge id=":n1\_7" function="internal">

<lane id=":n1\_7\_0" index="0" speed="10.69" length="15.68" shape="290.46,344.80 294.50,344.33 298.00,342.93 300.96,340.60 303.39,337.34"/>

</edge>

<edge id=":n1\_8" function="internal">

<lane id=":n1\_8\_0" index="0" speed="3.65" length="1.32" shape="290.46,344.80 291.56,345.53"/>

</edge>

<edge id=":n1\_11" function="internal">

<lane id=":n1\_11\_0" index="0" speed="3.65" length="3.35" shape="291.56,345.53 291.66,345.60 292.06,346.40 291.66,347.20 290.46,348.00"/>

</edge>

<edge id=":n2\_0" function="internal">

<lane id=":n2\_0\_0" index="0" speed="11.73" length="19.04" shape="396.61,164.14 398.58,168.67 399.23,173.20 398.58,177.73 396.61,182.26"/>

</edge>

<edge id=":n2\_1" function="internal">

<lane id=":n2\_1\_0" index="0" speed="7.40" length="7.22" shape="396.61,164.14 398.54,168.80 398.29,170.96"/>

</edge>

<edge id=":n2\_2" function="internal">

<lane id=":n2\_2\_0" index="0" speed="3.65" length="1.44" shape="396.61,164.14 396.52,165.58"/>

</edge>

<edge id=":n2\_9" function="internal">

<lane id=":n2\_9\_0" index="0" speed="7.40" length="9.59" shape="398.29,170.96 398.15,172.13 395.46,174.13 390.46,174.80"/>

</edge>

<edge id=":n2\_10" function="internal">

<lane id=":n2\_10\_0" index="0" speed="3.65" length="3.23" shape="396.52,165.58 396.03,166.32 395.14,166.38 393.84,165.74"/>

</edge>

<edge id=":n2\_3" function="internal">

<lane id=":n2\_3\_0" index="0" speed="5.67" length="9.24" shape="390.46,171.60 393.21,171.23 394.69,170.13 394.90,168.30 393.84,165.74"/>

</edge>

<edge id=":n2\_4" function="internal">

<lane id=":n2\_4\_0" index="0" speed="7.40" length="16.80" shape="390.46,171.60 395.46,172.27 398.15,174.27 398.54,177.60 396.61,182.26"/>

</edge>

<edge id=":n2\_5" function="internal">

<lane id=":n2\_5\_0" index="0" speed="3.65" length="4.67" shape="390.46,171.60 391.66,172.40 392.06,173.20 391.66,174.00 390.46,174.80"/>

</edge>

<edge id=":n2\_6" function="internal">

<lane id=":n2\_6\_0" index="0" speed="5.67" length="9.24" shape="393.84,180.66 394.90,178.10 394.69,176.27 393.21,175.17 390.46,174.80"/>

</edge>

<edge id=":n2\_7" function="internal">

<lane id=":n2\_7\_0" index="0" speed="10.68" length="15.68" shape="393.84,180.66 395.46,176.93 396.00,173.20 395.46,169.47 393.84,165.74"/>

</edge>

<edge id=":n2\_8" function="internal">

<lane id=":n2\_8\_0" index="0" speed="3.65" length="1.32" shape="393.84,180.66 395.03,180.08"/>

</edge>

<edge id=":n2\_11" function="internal">

<lane id=":n2\_11\_0" index="0" speed="3.65" length="3.35" shape="395.03,180.08 395.14,180.02 396.03,180.08 396.52,180.82 396.61,182.26"/>

</edge>

<edge id=":n3\_0" function="internal">

<lane id=":n3\_0\_0" index="0" speed="5.67" length="9.24" shape="303.39,9.06 301.69,6.86 300.00,6.13 298.31,6.87 296.61,9.06"/>

</edge>

<edge id=":n3\_1" function="internal">

<lane id=":n3\_1\_0" index="0" speed="10.69" length="15.68" shape="303.39,9.06 300.96,5.80 298.00,3.47 294.50,2.07 290.46,1.60"/>

</edge>

<edge id=":n3\_2" function="internal">

<lane id=":n3\_2\_0" index="0" speed="3.65" length="1.32" shape="303.39,9.06 303.47,7.74"/>

</edge>

<edge id=":n3\_9" function="internal">

<lane id=":n3\_9\_0" index="0" speed="3.65" length="3.35" shape="303.47,7.74 303.48,7.62 303.97,6.88 304.86,6.82 306.16,7.46"/>

</edge>

<edge id=":n3\_3" function="internal">

<lane id=":n3\_3\_0" index="0" speed="11.73" length="19.04" shape="290.46,-1.60 295.36,-1.03 299.62,0.67 303.21,3.50 306.16,7.46"/>

</edge>

<edge id=":n3\_4" function="internal">

<lane id=":n3\_4\_0" index="0" speed="7.40" length="7.21" shape="290.46,-1.60 295.46,-0.93 297.20,0.36"/>

</edge>

<edge id=":n3\_5" function="internal">

<lane id=":n3\_5\_0" index="0" speed="3.65" length="1.44" shape="290.46,-1.60 291.66,-0.80"/>

</edge>

<edge id=":n3\_10" function="internal">

<lane id=":n3\_10\_0" index="0" speed="7.40" length="9.59" shape="297.20,0.36 298.15,1.07 298.54,4.40 296.61,9.06"/>

</edge>

<edge id=":n3\_11" function="internal">

<lane id=":n3\_11\_0" index="0" speed="3.65" length="3.23" shape="291.66,-0.80 292.06,0.00 291.66,0.80 290.46,1.60"/>

</edge>

<edge id=":n3\_6" function="internal">

<lane id=":n3\_6\_0" index="0" speed="5.67" length="9.24" shape="293.84,7.46 294.90,4.90 294.69,3.07 293.21,1.97 290.46,1.60"/>

</edge>

<edge id=":n3\_7" function="internal">

<lane id=":n3\_7\_0" index="0" speed="7.40" length="16.80" shape="293.84,7.46 296.92,3.47 300.00,2.13 303.08,3.46 306.16,7.46"/>

</edge>

<edge id=":n3\_8" function="internal">

<lane id=":n3\_8\_0" index="0" speed="3.65" length="4.67" shape="293.84,7.46 295.14,6.82 296.03,6.88 296.52,7.62 296.61,9.06"/>

</edge>

<edge id=":n4\_0" function="internal">

<lane id=":n4\_0\_0" index="0" speed="5.67" length="9.24" shape="103.39,9.06 101.69,6.87 100.00,6.13 98.31,6.86 96.61,9.06"/>

</edge>

<edge id=":n4\_1" function="internal">

<lane id=":n4\_1\_0" index="0" speed="7.40" length="16.80" shape="103.39,9.06 101.46,4.40 101.85,1.07 104.54,-0.93 109.54,-1.60"/>

</edge>

<edge id=":n4\_2" function="internal">

<lane id=":n4\_2\_0" index="0" speed="3.65" length="4.67" shape="103.39,9.06 103.48,7.62 103.97,6.88 104.86,6.82 106.16,7.46"/>

</edge>

<edge id=":n4\_3" function="internal">

<lane id=":n4\_3\_0" index="0" speed="5.67" length="9.24" shape="109.54,1.60 106.79,1.97 105.31,3.07 105.10,4.90 106.16,7.46"/>

</edge>

<edge id=":n4\_4" function="internal">

<lane id=":n4\_4\_0" index="0" speed="10.69" length="15.68" shape="109.54,1.60 105.50,2.07 102.00,3.47 99.04,5.80 96.61,9.06"/>

</edge>

<edge id=":n4\_5" function="internal">

<lane id=":n4\_5\_0" index="0" speed="3.65" length="1.32" shape="109.54,1.60 108.44,0.87"/>

</edge>

<edge id=":n4\_9" function="internal">

<lane id=":n4\_9\_0" index="0" speed="3.65" length="3.35" shape="108.44,0.87 108.34,0.80 107.94,0.00 108.34,-0.80 109.54,-1.60"/>

</edge>

<edge id=":n4\_6" function="internal">

<lane id=":n4\_6\_0" index="0" speed="11.73" length="19.04" shape="93.84,7.46 96.79,3.50 100.38,0.67 104.64,-1.03 109.54,-1.60"/>

</edge>

<edge id=":n4\_7" function="internal">

<lane id=":n4\_7\_0" index="0" speed="7.40" length="7.21" shape="93.84,7.46 96.92,3.46 98.91,2.60"/>

</edge>

<edge id=":n4\_8" function="internal">

<lane id=":n4\_8\_0" index="0" speed="3.65" length="1.44" shape="93.84,7.46 95.14,6.82"/>

</edge>

<edge id=":n4\_10" function="internal">

<lane id=":n4\_10\_0" index="0" speed="7.40" length="9.59" shape="98.91,2.60 100.00,2.13 103.08,3.47 106.16,7.46"/>

</edge>

<edge id=":n4\_11" function="internal">

<lane id=":n4\_11\_0" index="0" speed="3.65" length="3.23" shape="95.14,6.82 96.03,6.88 96.52,7.62 96.61,9.06"/>

</edge>

<edge id=":n5\_0" function="internal">

<lane id=":n5\_0\_0" index="0" speed="11.73" length="19.04" shape="3.39,182.26 1.42,177.73 0.77,173.20 1.42,168.67 3.39,164.14"/>

</edge>

<edge id=":n5\_1" function="internal">

<lane id=":n5\_1\_0" index="0" speed="7.40" length="7.22" shape="3.39,182.26 1.46,177.60 1.71,175.44"/>

</edge>

<edge id=":n5\_2" function="internal">

<lane id=":n5\_2\_0" index="0" speed="3.65" length="1.44" shape="3.39,182.26 3.48,180.82"/>

</edge>

<edge id=":n5\_9" function="internal">

<lane id=":n5\_9\_0" index="0" speed="7.40" length="9.59" shape="1.71,175.44 1.85,174.27 4.54,172.27 9.54,171.60"/>

</edge>

<edge id=":n5\_10" function="internal">

<lane id=":n5\_10\_0" index="0" speed="3.65" length="3.23" shape="3.48,180.82 3.97,180.08 4.86,180.02 6.16,180.66"/>

</edge>

<edge id=":n5\_3" function="internal">

<lane id=":n5\_3\_0" index="0" speed="5.67" length="9.24" shape="9.54,174.80 6.79,175.17 5.31,176.27 5.10,178.10 6.16,180.66"/>

</edge>

<edge id=":n5\_4" function="internal">

<lane id=":n5\_4\_0" index="0" speed="7.40" length="16.80" shape="9.54,174.80 4.54,174.13 1.85,172.13 1.46,168.80 3.39,164.14"/>

</edge>

<edge id=":n5\_5" function="internal">

<lane id=":n5\_5\_0" index="0" speed="3.65" length="4.67" shape="9.54,174.80 8.34,174.00 7.94,173.20 8.34,172.40 9.54,171.60"/>

</edge>

<edge id=":n5\_6" function="internal">

<lane id=":n5\_6\_0" index="0" speed="5.67" length="9.24" shape="6.16,165.74 5.10,168.30 5.31,170.13 6.79,171.23 9.54,171.60"/>

</edge>

<edge id=":n5\_7" function="internal">

<lane id=":n5\_7\_0" index="0" speed="10.68" length="15.68" shape="6.16,165.74 4.54,169.47 4.00,173.20 4.54,176.93 6.16,180.66"/>

</edge>

<edge id=":n5\_8" function="internal">

<lane id=":n5\_8\_0" index="0" speed="3.65" length="1.32" shape="6.16,165.74 4.97,166.32"/>

</edge>

<edge id=":n5\_11" function="internal">

<lane id=":n5\_11\_0" index="0" speed="3.65" length="3.35" shape="4.97,166.32 4.86,166.38 3.97,166.32 3.48,165.58 3.39,164.14"/>

</edge>

<edge id=":n6\_0" function="internal">

<lane id=":n6\_0\_0" index="0" speed="11.73" length="19.04" shape="109.54,348.00 104.64,347.43 100.38,345.73 96.79,342.90 93.84,338.94"/>

</edge>

<edge id=":n6\_1" function="internal">

<lane id=":n6\_1\_0" index="0" speed="7.40" length="7.21" shape="109.54,348.00 104.54,347.33 102.80,346.04"/>

</edge>

<edge id=":n6\_2" function="internal">

<lane id=":n6\_2\_0" index="0" speed="3.65" length="1.44" shape="109.54,348.00 108.34,347.20"/>

</edge>

<edge id=":n6\_9" function="internal">

<lane id=":n6\_9\_0" index="0" speed="7.40" length="9.59" shape="102.80,346.04 101.85,345.33 101.46,342.00 103.39,337.34"/>

</edge>

<edge id=":n6\_10" function="internal">

<lane id=":n6\_10\_0" index="0" speed="3.65" length="3.23" shape="108.34,347.20 107.94,346.40 108.34,345.60 109.54,344.80"/>

</edge>

<edge id=":n6\_3" function="internal">

<lane id=":n6\_3\_0" index="0" speed="5.67" length="9.24" shape="106.16,338.94 105.10,341.50 105.31,343.33 106.79,344.43 109.54,344.80"/>

</edge>

<edge id=":n6\_4" function="internal">

<lane id=":n6\_4\_0" index="0" speed="7.40" length="16.80" shape="106.16,338.94 103.08,342.93 100.00,344.27 96.92,342.94 93.84,338.94"/>

</edge>

<edge id=":n6\_5" function="internal">

<lane id=":n6\_5\_0" index="0" speed="3.65" length="4.67" shape="106.16,338.94 104.86,339.58 103.97,339.52 103.48,338.78 103.39,337.34"/>

</edge>

<edge id=":n6\_6" function="internal">

<lane id=":n6\_6\_0" index="0" speed="5.67" length="9.24" shape="96.61,337.34 98.31,339.54 100.00,340.27 101.69,339.53 103.39,337.34"/>

</edge>

<edge id=":n6\_7" function="internal">

<lane id=":n6\_7\_0" index="0" speed="10.69" length="15.68" shape="96.61,337.34 99.04,340.60 102.00,342.93 105.50,344.33 109.54,344.80"/>

</edge>

<edge id=":n6\_8" function="internal">

<lane id=":n6\_8\_0" index="0" speed="3.65" length="1.32" shape="96.61,337.34 96.53,338.66"/>

</edge>

<edge id=":n6\_11" function="internal">

<lane id=":n6\_11\_0" index="0" speed="3.65" length="3.35" shape="96.53,338.66 96.52,338.78 96.03,339.52 95.14,339.58 93.84,338.94"/>

</edge>

<edge id=":n\_center\_0" function="internal">

<lane id=":n\_center\_0\_0" index="0" speed="9.88" length="31.07" shape="211.39,196.12 205.69,188.73 200.00,186.26 194.31,188.73 188.61,196.12"/>

</edge>

<edge id=":n\_center\_1" function="internal">

<lane id=":n\_center\_1\_0" index="0" speed="13.89" length="44.78" shape="211.39,196.12 204.46,186.79 196.00,180.13 186.00,176.13 174.46,174.80"/>

</edge>

<edge id=":n\_center\_2" function="internal">

<lane id=":n\_center\_2\_0" index="0" speed="13.89" length="51.09" shape="211.39,196.12 185.84,151.88"/>

</edge>

<edge id=":n\_center\_3" function="internal">

<lane id=":n\_center\_3\_0" index="0" speed="13.89" length="6.15" shape="211.39,196.12 208.94,190.47"/>

</edge>

<edge id=":n\_center\_4" function="internal">

<lane id=":n\_center\_4\_0" index="0" speed="10.63" length="3.79" shape="211.39,196.12 210.15,192.54"/>

</edge>

<edge id=":n\_center\_5" function="internal">

<lane id=":n\_center\_5\_0" index="0" speed="3.65" length="1.44" shape="211.39,196.12 211.48,194.68"/>

</edge>

<edge id=":n\_center\_36" function="internal">

<lane id=":n\_center\_36\_0" index="0" speed="13.89" length="41.98" shape="208.94,190.47 206.42,184.66 204.77,173.20 206.42,161.74 211.39,150.28"/>

</edge>

<edge id=":n\_center\_37" function="internal">

<lane id=":n\_center\_37\_0" index="0" speed="10.63" length="32.37" shape="210.15,192.54 208.07,186.54 209.62,178.75 215.59,173.52 225.54,171.60"/>

</edge>

<edge id=":n\_center\_38" function="internal">

<lane id=":n\_center\_38\_0" index="0" speed="3.65" length="3.23" shape="211.48,194.68 211.97,193.93 212.86,193.88 214.16,194.52"/>

</edge>

<edge id=":n\_center\_6" function="internal">

<lane id=":n\_center\_6\_0" index="0" speed="9.88" length="31.07" shape="225.54,174.80 216.29,176.03 211.31,179.73 210.60,185.89 214.16,194.52"/>

</edge>

<edge id=":n\_center\_7" function="internal">

<lane id=":n\_center\_7\_0" index="0" speed="13.89" length="44.78" shape="225.54,174.80 214.00,176.13 204.00,180.13 195.54,186.79 188.61,196.12"/>

</edge>

<edge id=":n\_center\_8" function="internal">

<lane id=":n\_center\_8\_0" index="0" speed="13.89" length="51.09" shape="225.54,174.80 174.46,174.80"/>

</edge>

<edge id=":n\_center\_9" function="internal">

<lane id=":n\_center\_9\_0" index="0" speed="13.89" length="6.15" shape="225.54,174.80 219.43,174.09"/>

</edge>

<edge id=":n\_center\_10" function="internal">

<lane id=":n\_center\_10\_0" index="0" speed="10.63" length="3.79" shape="225.54,174.80 221.82,174.08"/>

</edge>

<edge id=":n\_center\_11" function="internal">

<lane id=":n\_center\_11\_0" index="0" speed="3.65" length="1.44" shape="225.54,174.80 224.34,174.00"/>

</edge>

<edge id=":n\_center\_39" function="internal">

<lane id=":n\_center\_39\_0" index="0" speed="13.89" length="41.98" shape="219.43,174.09 213.14,173.37 202.38,169.07 193.29,161.91 185.84,151.88"/>

</edge>

<edge id=":n\_center\_40" function="internal">

<lane id=":n\_center\_40\_0" index="0" speed="10.63" length="32.37" shape="221.82,174.08 215.59,172.88 209.62,167.65 208.07,159.86 211.39,150.28"/>

</edge>

<edge id=":n\_center\_41" function="internal">

<lane id=":n\_center\_41\_0" index="0" speed="3.65" length="3.23" shape="224.34,174.00 223.94,173.20 224.34,172.40 225.54,171.60"/>

</edge>

<edge id=":n\_center\_12" function="internal">

<lane id=":n\_center\_12\_0" index="0" speed="9.88" length="31.07" shape="214.16,151.88 210.60,160.51 211.31,166.67 216.29,170.37 225.54,171.60"/>

</edge>

<edge id=":n\_center\_13" function="internal">

<lane id=":n\_center\_13\_0" index="0" speed="13.89" length="44.77" shape="214.16,151.88 209.54,162.54 208.00,173.20 209.54,183.86 214.16,194.52"/>

</edge>

<edge id=":n\_center\_14" function="internal">

<lane id=":n\_center\_14\_0" index="0" speed="13.89" length="51.09" shape="214.16,151.88 188.61,196.12"/>

</edge>

<edge id=":n\_center\_15" function="internal">

<lane id=":n\_center\_15\_0" index="0" speed="13.89" length="6.15" shape="214.16,151.88 210.49,156.82"/>

</edge>

<edge id=":n\_center\_16" function="internal">

<lane id=":n\_center\_16\_0" index="0" speed="10.63" length="3.79" shape="214.16,151.88 211.68,154.74"/>

</edge>

<edge id=":n\_center\_17" function="internal">

<lane id=":n\_center\_17\_0" index="0" speed="3.65" length="1.44" shape="214.16,151.88 212.86,152.52"/>

</edge>

<edge id=":n\_center\_42" function="internal">

<lane id=":n\_center\_42\_0" index="0" speed="13.89" length="41.98" shape="210.49,156.82 206.71,161.91 197.62,169.07 186.86,173.37 174.46,174.80"/>

</edge>

<edge id=":n\_center\_43" function="internal">

<lane id=":n\_center\_43\_0" index="0" speed="10.63" length="32.37" shape="211.68,154.74 207.52,159.54 200.00,162.10 192.48,159.54 185.84,151.88"/>

</edge>

<edge id=":n\_center\_44" function="internal">

<lane id=":n\_center\_44\_0" index="0" speed="3.65" length="3.23" shape="212.86,152.52 211.97,152.47 211.48,151.72 211.39,150.28"/>

</edge>

<edge id=":n\_center\_18" function="internal">

<lane id=":n\_center\_18\_0" index="0" speed="9.88" length="31.07" shape="188.61,150.28 194.31,157.67 200.00,160.14 205.69,157.67 211.39,150.28"/>

</edge>

<edge id=":n\_center\_19" function="internal">

<lane id=":n\_center\_19\_0" index="0" speed="13.89" length="44.78" shape="188.61,150.28 195.54,159.61 204.00,166.27 214.00,170.27 225.54,171.60"/>

</edge>

<edge id=":n\_center\_20" function="internal">

<lane id=":n\_center\_20\_0" index="0" speed="13.89" length="51.09" shape="188.61,150.28 214.16,194.52"/>

</edge>

<edge id=":n\_center\_21" function="internal">

<lane id=":n\_center\_21\_0" index="0" speed="13.89" length="6.15" shape="188.61,150.28 191.06,155.93"/>

</edge>

<edge id=":n\_center\_22" function="internal">

<lane id=":n\_center\_22\_0" index="0" speed="10.63" length="3.79" shape="188.61,150.28 189.85,153.86"/>

</edge>

<edge id=":n\_center\_23" function="internal">

<lane id=":n\_center\_23\_0" index="0" speed="3.65" length="1.44" shape="188.61,150.28 188.52,151.72"/>

</edge>

<edge id=":n\_center\_45" function="internal">

<lane id=":n\_center\_45\_0" index="0" speed="13.89" length="41.98" shape="191.06,155.93 193.58,161.74 195.23,173.20 193.58,184.66 188.61,196.12"/>

</edge>

<edge id=":n\_center\_46" function="internal">

<lane id=":n\_center\_46\_0" index="0" speed="10.63" length="32.37" shape="189.85,153.86 191.93,159.86 190.38,167.65 184.41,172.88 174.46,174.80"/>

</edge>

<edge id=":n\_center\_47" function="internal">

<lane id=":n\_center\_47\_0" index="0" speed="3.65" length="3.23" shape="188.52,151.72 188.03,152.47 187.14,152.52 185.84,151.88"/>

</edge>

<edge id=":n\_center\_24" function="internal">

<lane id=":n\_center\_24\_0" index="0" speed="9.88" length="31.07" shape="174.46,171.60 183.71,170.37 188.69,166.67 189.40,160.51 185.84,151.88"/>

</edge>

<edge id=":n\_center\_25" function="internal">

<lane id=":n\_center\_25\_0" index="0" speed="13.89" length="44.78" shape="174.46,171.60 186.00,170.27 196.00,166.27 204.46,159.61 211.39,150.28"/>

</edge>

<edge id=":n\_center\_26" function="internal">

<lane id=":n\_center\_26\_0" index="0" speed="13.89" length="51.09" shape="174.46,171.60 225.54,171.60"/>

</edge>

<edge id=":n\_center\_27" function="internal">

<lane id=":n\_center\_27\_0" index="0" speed="13.89" length="6.15" shape="174.46,171.60 180.57,172.31"/>

</edge>

<edge id=":n\_center\_28" function="internal">

<lane id=":n\_center\_28\_0" index="0" speed="10.63" length="3.79" shape="174.46,171.60 178.18,172.32"/>

</edge>

<edge id=":n\_center\_29" function="internal">

<lane id=":n\_center\_29\_0" index="0" speed="3.65" length="1.44" shape="174.46,171.60 175.66,172.40"/>

</edge>

<edge id=":n\_center\_48" function="internal">

<lane id=":n\_center\_48\_0" index="0" speed="13.89" length="41.98" shape="180.57,172.31 186.86,173.03 197.62,177.33 206.71,184.49 214.16,194.52"/>

</edge>

<edge id=":n\_center\_49" function="internal">

<lane id=":n\_center\_49\_0" index="0" speed="10.63" length="32.37" shape="178.18,172.32 184.41,173.52 190.38,178.75 191.93,186.54 188.61,196.12"/>

</edge>

<edge id=":n\_center\_50" function="internal">

<lane id=":n\_center\_50\_0" index="0" speed="3.65" length="3.23" shape="175.66,172.40 176.06,173.20 175.66,174.00 174.46,174.80"/>

</edge>

<edge id=":n\_center\_30" function="internal">

<lane id=":n\_center\_30\_0" index="0" speed="9.88" length="31.07" shape="185.84,194.52 189.40,185.89 188.69,179.73 183.71,176.03 174.46,174.80"/>

</edge>

<edge id=":n\_center\_31" function="internal">

<lane id=":n\_center\_31\_0" index="0" speed="13.89" length="44.77" shape="185.84,194.52 190.46,183.86 192.00,173.20 190.46,162.54 185.84,151.88"/>

</edge>

<edge id=":n\_center\_32" function="internal">

<lane id=":n\_center\_32\_0" index="0" speed="13.89" length="51.09" shape="185.84,194.52 211.39,150.28"/>

</edge>

<edge id=":n\_center\_33" function="internal">

<lane id=":n\_center\_33\_0" index="0" speed="13.89" length="6.15" shape="185.84,194.52 189.51,189.58"/>

</edge>

<edge id=":n\_center\_34" function="internal">

<lane id=":n\_center\_34\_0" index="0" speed="10.63" length="3.79" shape="185.84,194.52 188.32,191.66"/>

</edge>

<edge id=":n\_center\_35" function="internal">

<lane id=":n\_center\_35\_0" index="0" speed="3.65" length="1.44" shape="185.84,194.52 187.14,193.88"/>

</edge>

<edge id=":n\_center\_51" function="internal">

<lane id=":n\_center\_51\_0" index="0" speed="13.89" length="41.98" shape="189.51,189.58 193.29,184.49 202.38,177.33 213.14,173.03 225.54,171.60"/>

</edge>

<edge id=":n\_center\_52" function="internal">

<lane id=":n\_center\_52\_0" index="0" speed="10.63" length="32.37" shape="188.32,191.66 192.48,186.86 200.00,184.30 207.52,186.86 214.16,194.52"/>

</edge>

<edge id=":n\_center\_53" function="internal">

<lane id=":n\_center\_53\_0" index="0" speed="3.65" length="3.23" shape="187.14,193.88 188.03,193.93 188.52,194.68 188.61,196.12"/>

</edge>

<edge id="e1" from="n1" to="n2" priority="-1">

<lane id="e1\_0" index="0" speed="13.89" length="180.91" shape="303.39,337.34 393.84,180.66"/>

</edge>

<edge id="e10" from="n\_center" to="n4" priority="-1">

<lane id="e10\_0" index="0" speed="13.89" length="164.91" shape="185.84,151.88 103.39,9.06"/>

</edge>

<edge id="e10\_rev" from="n4" to="n\_center" priority="-1">

<lane id="e10\_rev\_0" index="0" speed="13.89" length="164.91" shape="106.16,7.46 188.61,150.28"/>

</edge>

<edge id="e11" from="n\_center" to="n5" priority="-1">

<lane id="e11\_0" index="0" speed="13.89" length="164.91" shape="174.46,174.80 9.54,174.80"/>

</edge>

<edge id="e11\_rev" from="n5" to="n\_center" priority="-1">

<lane id="e11\_rev\_0" index="0" speed="13.89" length="164.91" shape="9.54,171.60 174.46,171.60"/>

</edge>

<edge id="e12" from="n\_center" to="n6" priority="-1">

<lane id="e12\_0" index="0" speed="13.89" length="164.91" shape="188.61,196.12 106.16,338.94"/>

</edge>

<edge id="e12\_rev" from="n6" to="n\_center" priority="-1">

<lane id="e12\_rev\_0" index="0" speed="13.89" length="164.91" shape="103.39,337.34 185.84,194.52"/>

</edge>

<edge id="e1\_rev" from="n2" to="n1" priority="-1">

<lane id="e1\_rev\_0" index="0" speed="13.89" length="180.91" shape="396.61,182.26 306.16,338.94"/>

</edge>

<edge id="e2" from="n2" to="n3" priority="-1">

<lane id="e2\_0" index="0" speed="13.89" length="180.91" shape="393.84,165.74 303.39,9.06"/>

</edge>

<edge id="e2\_rev" from="n3" to="n2" priority="-1">

<lane id="e2\_rev\_0" index="0" speed="13.89" length="180.91" shape="306.16,7.46 396.61,164.14"/>

</edge>

<edge id="e3" from="n3" to="n4" priority="-1">

<lane id="e3\_0" index="0" speed="13.89" length="180.91" shape="290.46,1.60 109.54,1.60"/>

</edge>

<edge id="e3\_rev" from="n4" to="n3" priority="-1">

<lane id="e3\_rev\_0" index="0" speed="13.89" length="180.91" shape="109.54,-1.60 290.46,-1.60"/>

</edge>

<edge id="e4" from="n4" to="n5" priority="-1">

<lane id="e4\_0" index="0" speed="13.89" length="180.91" shape="96.61,9.06 6.16,165.74"/>

</edge>

<edge id="e4\_rev" from="n5" to="n4" priority="-1">

<lane id="e4\_rev\_0" index="0" speed="13.89" length="180.91" shape="3.39,164.14 93.84,7.46"/>

</edge>

<edge id="e5" from="n5" to="n6" priority="-1">

<lane id="e5\_0" index="0" speed="13.89" length="180.91" shape="6.16,180.66 96.61,337.34"/>

</edge>

<edge id="e5\_rev" from="n6" to="n5" priority="-1">

<lane id="e5\_rev\_0" index="0" speed="13.89" length="180.91" shape="93.84,338.94 3.39,182.26"/>

</edge>

<edge id="e6" from="n6" to="n1" priority="-1">

<lane id="e6\_0" index="0" speed="13.89" length="180.91" shape="109.54,344.80 290.46,344.80"/>

</edge>

<edge id="e6\_rev" from="n1" to="n6" priority="-1">

<lane id="e6\_rev\_0" index="0" speed="13.89" length="180.91" shape="290.46,348.00 109.54,348.00"/>

</edge>

<edge id="e7" from="n\_center" to="n1" priority="-1">

<lane id="e7\_0" index="0" speed="13.89" length="164.91" shape="214.16,194.52 296.61,337.34"/>

</edge>

<edge id="e7\_rev" from="n1" to="n\_center" priority="-1">

<lane id="e7\_rev\_0" index="0" speed="13.89" length="164.91" shape="293.84,338.94 211.39,196.12"/>

</edge>

<edge id="e8" from="n\_center" to="n2" priority="-1">

<lane id="e8\_0" index="0" speed="13.89" length="164.91" shape="225.54,171.60 390.46,171.60"/>

</edge>

<edge id="e8\_rev" from="n2" to="n\_center" priority="-1">

<lane id="e8\_rev\_0" index="0" speed="13.89" length="164.91" shape="390.46,174.80 225.54,174.80"/>

</edge>

<edge id="e9" from="n\_center" to="n3" priority="-1">

<lane id="e9\_0" index="0" speed="13.89" length="164.91" shape="211.39,150.28 293.84,7.46"/>

</edge>

<edge id="e9\_rev" from="n3" to="n\_center" priority="-1">

<lane id="e9\_rev\_0" index="0" speed="13.89" length="164.91" shape="296.61,9.06 214.16,151.88"/>

</edge>

<tlLogic id="n\_center" type="static" programID="0" offset="0">

<phase duration="26" state="rrrrrrGGGgggrrrrrrrrrrrrGGGgggrrrrrr"/>

<phase duration="3" state="rrrrrryyyyyyrrrrrrrrrrrryyyyyyrrrrrr"/>

<phase duration="1" state="rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"/>

<phase duration="26" state="rrrrrrrrrrrrGGGgggrrrrrrrrrrrrGGGggg"/>

<phase duration="3" state="rrrrrrrrrrrryyyyyyrrrrrrrrrrrryyyyyy"/>

<phase duration="1" state="rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"/>

<phase duration="26" state="GGGgggrrrrrrrrrrrrGGGgggrrrrrrrrrrrr"/>

<phase duration="3" state="yyyyyyrrrrrrrrrrrryyyyyyrrrrrrrrrrrr"/>

<phase duration="1" state="rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"/>

</tlLogic>

<junction id="n1" type="priority" x="300.00" y="346.40" incLanes="e1\_rev\_0 e7\_0 e6\_0" intLanes=":n1\_0\_0 :n1\_9\_0 :n1\_10\_0 :n1\_3\_0 :n1\_4\_0 :n1\_5\_0 :n1\_6\_0 :n1\_7\_0 :n1\_11\_0" shape="307.54,339.74 302.00,336.54 300.67,338.08 300.00,338.27 299.33,338.08 298.67,337.50 298.00,336.54 292.46,339.74 293.12,341.66 292.96,342.33 292.46,342.82 291.62,343.10 290.46,343.20 290.46,349.60 294.10,349.33 297.42,348.50 300.42,347.13 303.11,345.22 305.49,342.75">

<request index="0" response="000000000" foes="100010000" cont="0"/>

<request index="1" response="011000000" foes="011110000" cont="1"/>

<request index="2" response="010001000" foes="010001000" cont="1"/>

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<request index="4" response="010000011" foes="110000011" cont="0"/>

<request index="5" response="001000010" foes="001000010" cont="0"/>

<request index="6" response="000000000" foes="000100010" cont="0"/>

<request index="7" response="000000000" foes="000011110" cont="0"/>

<request index="8" response="000010001" foes="000010001" cont="1"/>

</junction>

<junction id="n2" type="priority" x="400.00" y="173.20" incLanes="e2\_rev\_0 e8\_0 e1\_0" intLanes=":n2\_0\_0 :n2\_9\_0 :n2\_10\_0 :n2\_3\_0 :n2\_4\_0 :n2\_5\_0 :n2\_6\_0 :n2\_7\_0 :n2\_11\_0" shape="398.00,163.34 392.46,166.54 393.12,168.46 392.96,169.13 392.46,169.62 391.62,169.90 390.46,170.00 390.46,176.40 392.46,176.78 392.96,177.27 393.12,177.94 392.96,178.81 392.46,179.86 398.00,183.06 399.58,179.78 400.53,176.49 400.85,173.20 400.53,169.91 399.58,166.62">

<request index="0" response="000000000" foes="100010000" cont="0"/>

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<request index="2" response="010001000" foes="010001000" cont="1"/>

<request index="3" response="010000000" foes="010000100" cont="0"/>

<request index="4" response="010000011" foes="110000011" cont="0"/>

<request index="5" response="001000010" foes="001000010" cont="0"/>

<request index="6" response="000000000" foes="000100010" cont="0"/>

<request index="7" response="000000000" foes="000011110" cont="0"/>

<request index="8" response="000010001" foes="000010001" cont="1"/>

</junction>

<junction id="n3" type="priority" x="300.00" y="0.00" incLanes="e2\_0 e3\_rev\_0 e9\_0" intLanes=":n3\_0\_0 :n3\_1\_0 :n3\_9\_0 :n3\_3\_0 :n3\_10\_0 :n3\_11\_0 :n3\_6\_0 :n3\_7\_0 :n3\_8\_0" shape="302.00,9.86 307.54,6.66 305.49,3.65 303.11,1.18 300.42,-0.73 297.42,-2.10 294.10,-2.93 290.46,-3.20 290.46,3.20 292.46,3.58 292.96,4.07 293.12,4.74 292.96,5.61 292.46,6.66 298.00,9.86 299.33,8.32 300.00,8.13 300.67,8.32 301.33,8.90">

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<request index="4" response="000000011" foes="110000011" cont="1"/>

<request index="5" response="001000010" foes="001000010" cont="1"/>

<request index="6" response="000000010" foes="000100010" cont="0"/>

<request index="7" response="000011010" foes="000011110" cont="0"/>

<request index="8" response="000010001" foes="000010001" cont="0"/>

</junction>

<junction id="n4" type="priority" x="100.00" y="0.00" incLanes="e10\_0 e3\_0 e4\_rev\_0" intLanes=":n4\_0\_0 :n4\_1\_0 :n4\_2\_0 :n4\_3\_0 :n4\_4\_0 :n4\_9\_0 :n4\_6\_0 :n4\_10\_0 :n4\_11\_0" shape="102.00,9.86 107.54,6.66 106.88,4.74 107.04,4.07 107.54,3.58 108.38,3.30 109.54,3.20 109.54,-3.20 105.90,-2.93 102.58,-2.10 99.58,-0.73 96.89,1.18 94.51,3.65 92.46,6.66 98.00,9.86 99.33,8.32 100.00,8.13 100.67,8.32 101.33,8.90">

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<request index="7" response="000011000" foes="000011110" cont="1"/>

<request index="8" response="000010001" foes="000010001" cont="1"/>

</junction>

<junction id="n5" type="priority" x="0.00" y="173.20" incLanes="e5\_rev\_0 e11\_0 e4\_0" intLanes=":n5\_0\_0 :n5\_9\_0 :n5\_10\_0 :n5\_3\_0 :n5\_4\_0 :n5\_5\_0 :n5\_6\_0 :n5\_7\_0 :n5\_11\_0" shape="2.00,183.06 7.54,179.86 6.88,177.94 7.04,177.27 7.54,176.78 8.38,176.50 9.54,176.40 9.54,170.00 7.54,169.62 7.04,169.13 6.88,168.46 7.04,167.59 7.54,166.54 2.00,163.34 0.42,166.62 -0.53,169.91 -0.85,173.20 -0.53,176.49 0.42,179.78">

<request index="0" response="000000000" foes="100010000" cont="0"/>

<request index="1" response="011000000" foes="011110000" cont="1"/>

<request index="2" response="010001000" foes="010001000" cont="1"/>

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<request index="7" response="000000000" foes="000011110" cont="0"/>

<request index="8" response="000010001" foes="000010001" cont="1"/>

</junction>

<junction id="n6" type="priority" x="100.00" y="346.40" incLanes="e6\_rev\_0 e12\_0 e5\_0" intLanes=":n6\_0\_0 :n6\_9\_0 :n6\_10\_0 :n6\_3\_0 :n6\_4\_0 :n6\_5\_0 :n6\_6\_0 :n6\_7\_0 :n6\_11\_0" shape="109.54,349.60 109.54,343.20 107.54,342.82 107.04,342.33 106.88,341.66 107.04,340.79 107.54,339.74 102.00,336.54 100.67,338.08 100.00,338.27 99.33,338.08 98.67,337.50 98.00,336.54 92.46,339.74 94.51,342.75 96.89,345.22 99.58,347.13 102.58,348.50 105.90,349.33">

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<request index="7" response="000000000" foes="000011110" cont="0"/>

<request index="8" response="000010001" foes="000010001" cont="1"/>

</junction>

<junction id="n\_center" type="traffic\_light" x="200.00" y="173.20" incLanes="e7\_rev\_0 e8\_rev\_0 e9\_rev\_0 e10\_rev\_0 e11\_rev\_0 e12\_rev\_0" intLanes=":n\_center\_0\_0 :n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_36\_0 :n\_center\_37\_0 :n\_center\_38\_0 :n\_center\_6\_0 :n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_39\_0 :n\_center\_40\_0 :n\_center\_41\_0 :n\_center\_12\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_42\_0 :n\_center\_43\_0 :n\_center\_44\_0 :n\_center\_18\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_45\_0 :n\_center\_46\_0 :n\_center\_47\_0 :n\_center\_24\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_48\_0 :n\_center\_49\_0 :n\_center\_50\_0 :n\_center\_30\_0 :n\_center\_31\_0 :n\_center\_32\_0 :n\_center\_51\_0 :n\_center\_52\_0 :n\_center\_53\_0" shape="210.00,196.92 215.54,193.72 213.04,188.43 212.21,184.10 213.04,180.73 215.54,178.32 219.71,176.88 225.54,176.40 225.54,170.00 219.71,169.52 215.54,168.08 213.04,165.67 212.21,162.30 213.04,157.97 215.54,152.68 210.00,149.48 206.98,153.49 203.58,155.89 200.00,156.70 196.42,155.89 193.02,153.49 190.00,149.48 184.46,152.68 186.96,157.97 187.79,162.30 186.96,165.67 184.46,168.08 180.29,169.52 174.46,170.00 174.46,176.40 180.29,176.88 184.46,178.32 186.96,180.73 187.79,184.10 186.96,188.43 184.46,193.72 190.00,196.92 193.02,192.91 196.42,190.51 200.00,189.70 203.58,190.51 206.98,192.91" radius="20.00">

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</junction>

<junction id=":n1\_9\_0" type="internal" x="301.09" y="343.80" incLanes=":n1\_1\_0 e6\_0" intLanes=":n1\_4\_0 :n1\_5\_0 :n1\_6\_0 :n1\_7\_0"/>

<junction id=":n1\_10\_0" type="internal" x="304.86" y="339.58" incLanes=":n1\_2\_0 e6\_0 e7\_0" intLanes=":n1\_3\_0 :n1\_7\_0"/>

<junction id=":n1\_11\_0" type="internal" x="291.56" y="345.53" incLanes=":n1\_8\_0 e1\_rev\_0 e7\_0" intLanes=":n1\_0\_0 :n1\_4\_0"/>

<junction id=":n2\_9\_0" type="internal" x="398.29" y="170.96" incLanes=":n2\_1\_0 e1\_0" intLanes=":n2\_4\_0 :n2\_5\_0 :n2\_6\_0 :n2\_7\_0"/>

<junction id=":n2\_10\_0" type="internal" x="396.52" y="165.58" incLanes=":n2\_2\_0 e1\_0 e8\_0" intLanes=":n2\_3\_0 :n2\_7\_0"/>

<junction id=":n2\_11\_0" type="internal" x="395.03" y="180.08" incLanes=":n2\_8\_0 e2\_rev\_0 e8\_0" intLanes=":n2\_0\_0 :n2\_4\_0"/>

<junction id=":n3\_9\_0" type="internal" x="303.47" y="7.74" incLanes=":n3\_2\_0 e3\_rev\_0 e9\_0" intLanes=":n3\_3\_0 :n3\_7\_0"/>

<junction id=":n3\_10\_0" type="internal" x="297.20" y="0.36" incLanes=":n3\_4\_0 e2\_0" intLanes=":n3\_0\_0 :n3\_1\_0 :n3\_7\_0 :n3\_8\_0"/>

<junction id=":n3\_11\_0" type="internal" x="291.66" y="-0.80" incLanes=":n3\_5\_0 e2\_0 e9\_0" intLanes=":n3\_1\_0 :n3\_6\_0"/>

<junction id=":n4\_9\_0" type="internal" x="108.44" y="0.87" incLanes=":n4\_5\_0 e10\_0 e4\_rev\_0" intLanes=":n4\_1\_0 :n4\_6\_0"/>

<junction id=":n4\_10\_0" type="internal" x="98.91" y="2.60" incLanes=":n4\_7\_0 e3\_0" intLanes=":n4\_1\_0 :n4\_2\_0 :n4\_3\_0 :n4\_4\_0"/>

<junction id=":n4\_11\_0" type="internal" x="95.14" y="6.82" incLanes=":n4\_8\_0 e10\_0 e3\_0" intLanes=":n4\_0\_0 :n4\_4\_0"/>

<junction id=":n5\_9\_0" type="internal" x="1.71" y="175.44" incLanes=":n5\_1\_0 e4\_0" intLanes=":n5\_4\_0 :n5\_5\_0 :n5\_6\_0 :n5\_7\_0"/>

<junction id=":n5\_10\_0" type="internal" x="3.48" y="180.82" incLanes=":n5\_2\_0 e11\_0 e4\_0" intLanes=":n5\_3\_0 :n5\_7\_0"/>

<junction id=":n5\_11\_0" type="internal" x="4.97" y="166.32" incLanes=":n5\_8\_0 e11\_0 e5\_rev\_0" intLanes=":n5\_0\_0 :n5\_4\_0"/>

<junction id=":n6\_9\_0" type="internal" x="102.80" y="346.04" incLanes=":n6\_1\_0 e5\_0" intLanes=":n6\_4\_0 :n6\_5\_0 :n6\_6\_0 :n6\_7\_0"/>

<junction id=":n6\_10\_0" type="internal" x="108.34" y="347.20" incLanes=":n6\_2\_0 e12\_0 e5\_0" intLanes=":n6\_3\_0 :n6\_7\_0"/>

<junction id=":n6\_11\_0" type="internal" x="96.53" y="338.66" incLanes=":n6\_8\_0 e12\_0 e6\_rev\_0" intLanes=":n6\_0\_0 :n6\_4\_0"/>

<junction id=":n\_center\_36\_0" type="internal" x="208.94" y="190.47" incLanes=":n\_center\_3\_0 e10\_rev\_0" intLanes=":n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_10\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_16\_0 :n\_center\_17\_0 :n\_center\_18\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_32\_0 :n\_center\_33\_0 :n\_center\_34\_0"/>

<junction id=":n\_center\_37\_0" type="internal" x="210.15" y="192.54" incLanes=":n\_center\_4\_0 e10\_rev\_0" intLanes=":n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_10\_0 :n\_center\_11\_0 :n\_center\_12\_0 :n\_center\_13\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_33\_0 :n\_center\_34\_0"/>

<junction id=":n\_center\_38\_0" type="internal" x="211.48" y="194.68" incLanes=":n\_center\_5\_0 e10\_rev\_0 e11\_rev\_0 e12\_rev\_0 e8\_rev\_0 e9\_rev\_0" intLanes=":n\_center\_6\_0 :n\_center\_13\_0 :n\_center\_20\_0 :n\_center\_27\_0 :n\_center\_34\_0"/>

<junction id=":n\_center\_39\_0" type="internal" x="219.43" y="174.09" incLanes=":n\_center\_9\_0 e11\_rev\_0" intLanes=":n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_4\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_16\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_22\_0 :n\_center\_23\_0 :n\_center\_24\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_31\_0 :n\_center\_32\_0 :n\_center\_33\_0"/>

<junction id=":n\_center\_40\_0" type="internal" x="221.82" y="174.08" incLanes=":n\_center\_10\_0 e11\_rev\_0" intLanes=":n\_center\_3\_0 :n\_center\_4\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_16\_0 :n\_center\_17\_0 :n\_center\_18\_0 :n\_center\_19\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_32\_0 :n\_center\_33\_0"/>

<junction id=":n\_center\_41\_0" type="internal" x="224.34" y="174.00" incLanes=":n\_center\_11\_0 e10\_rev\_0 e11\_rev\_0 e12\_rev\_0 e7\_rev\_0 e9\_rev\_0" intLanes=":n\_center\_4\_0 :n\_center\_12\_0 :n\_center\_19\_0 :n\_center\_26\_0 :n\_center\_33\_0"/>

<junction id=":n\_center\_42\_0" type="internal" x="210.49" y="156.82" incLanes=":n\_center\_15\_0 e12\_rev\_0" intLanes=":n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_10\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_22\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_28\_0 :n\_center\_29\_0 :n\_center\_30\_0 :n\_center\_31\_0 :n\_center\_32\_0"/>

<junction id=":n\_center\_43\_0" type="internal" x="211.68" y="154.74" incLanes=":n\_center\_16\_0 e12\_rev\_0" intLanes=":n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_9\_0 :n\_center\_10\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_22\_0 :n\_center\_23\_0 :n\_center\_24\_0 :n\_center\_25\_0 :n\_center\_31\_0 :n\_center\_32\_0"/>

<junction id=":n\_center\_44\_0" type="internal" x="212.86" y="152.52" incLanes=":n\_center\_17\_0 e10\_rev\_0 e11\_rev\_0 e12\_rev\_0 e7\_rev\_0 e8\_rev\_0" intLanes=":n\_center\_3\_0 :n\_center\_10\_0 :n\_center\_18\_0 :n\_center\_25\_0 :n\_center\_32\_0"/>

<junction id=":n\_center\_45\_0" type="internal" x="191.06" y="155.93" incLanes=":n\_center\_21\_0 e7\_rev\_0" intLanes=":n\_center\_0\_0 :n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_16\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_28\_0 :n\_center\_32\_0 :n\_center\_33\_0 :n\_center\_34\_0 :n\_center\_35\_0"/>

<junction id=":n\_center\_46\_0" type="internal" x="189.85" y="153.86" incLanes=":n\_center\_22\_0 e7\_rev\_0" intLanes=":n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_15\_0 :n\_center\_16\_0 :n\_center\_25\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_28\_0 :n\_center\_29\_0 :n\_center\_30\_0 :n\_center\_31\_0"/>

<junction id=":n\_center\_47\_0" type="internal" x="188.52" y="151.72" incLanes=":n\_center\_23\_0 e11\_rev\_0 e12\_rev\_0 e7\_rev\_0 e8\_rev\_0 e9\_rev\_0" intLanes=":n\_center\_2\_0 :n\_center\_9\_0 :n\_center\_16\_0 :n\_center\_24\_0 :n\_center\_31\_0"/>

<junction id=":n\_center\_48\_0" type="internal" x="180.57" y="172.31" incLanes=":n\_center\_27\_0 e8\_rev\_0" intLanes=":n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_4\_0 :n\_center\_5\_0 :n\_center\_6\_0 :n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_22\_0 :n\_center\_31\_0 :n\_center\_32\_0 :n\_center\_33\_0 :n\_center\_34\_0"/>

<junction id=":n\_center\_49\_0" type="internal" x="178.18" y="172.32" incLanes=":n\_center\_28\_0 e8\_rev\_0" intLanes=":n\_center\_0\_0 :n\_center\_1\_0 :n\_center\_7\_0 :n\_center\_8\_0 :n\_center\_14\_0 :n\_center\_15\_0 :n\_center\_21\_0 :n\_center\_22\_0 :n\_center\_31\_0 :n\_center\_32\_0 :n\_center\_33\_0 :n\_center\_34\_0 :n\_center\_35\_0"/>

<junction id=":n\_center\_50\_0" type="internal" x="175.66" y="172.40" incLanes=":n\_center\_29\_0 e10\_rev\_0 e12\_rev\_0 e7\_rev\_0 e8\_rev\_0 e9\_rev\_0" intLanes=":n\_center\_1\_0 :n\_center\_8\_0 :n\_center\_15\_0 :n\_center\_22\_0 :n\_center\_30\_0"/>

<junction id=":n\_center\_51\_0" type="internal" x="189.51" y="189.58" incLanes=":n\_center\_33\_0 e9\_rev\_0" intLanes=":n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_4\_0 :n\_center\_8\_0 :n\_center\_9\_0 :n\_center\_10\_0 :n\_center\_11\_0 :n\_center\_12\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_19\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_26\_0 :n\_center\_27\_0 :n\_center\_28\_0"/>

<junction id=":n\_center\_52\_0" type="internal" x="188.32" y="191.66" incLanes=":n\_center\_34\_0 e9\_rev\_0" intLanes=":n\_center\_1\_0 :n\_center\_2\_0 :n\_center\_3\_0 :n\_center\_4\_0 :n\_center\_5\_0 :n\_center\_6\_0 :n\_center\_7\_0 :n\_center\_13\_0 :n\_center\_14\_0 :n\_center\_20\_0 :n\_center\_21\_0 :n\_center\_27\_0 :n\_center\_28\_0"/>

<junction id=":n\_center\_53\_0" type="internal" x="187.14" y="193.88" incLanes=":n\_center\_35\_0 e10\_rev\_0 e11\_rev\_0 e7\_rev\_0 e8\_rev\_0 e9\_rev\_0" intLanes=":n\_center\_0\_0 :n\_center\_7\_0 :n\_center\_14\_0 :n\_center\_21\_0 :n\_center\_28\_0"/>

<connection from="e1" to="e8\_rev" fromLane="0" toLane="0" via=":n2\_6\_0" dir="r" state="M"/>

<connection from="e1" to="e2" fromLane="0" toLane="0" via=":n2\_7\_0" dir="R" state="M"/>

<connection from="e1" to="e1\_rev" fromLane="0" toLane="0" via=":n2\_8\_0" dir="t" state="m"/>

<connection from="e10" to="e4" fromLane="0" toLane="0" via=":n4\_0\_0" dir="r" state="m"/>

<connection from="e10" to="e3\_rev" fromLane="0" toLane="0" via=":n4\_1\_0" dir="l" state="m"/>

<connection from="e10" to="e10\_rev" fromLane="0" toLane="0" via=":n4\_2\_0" dir="t" state="m"/>

<connection from="e10\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_18\_0" tl="n\_center" linkIndex="18" dir="r" state="o"/>

<connection from="e10\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_19\_0" tl="n\_center" linkIndex="19" dir="R" state="o"/>

<connection from="e10\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_20\_0" tl="n\_center" linkIndex="20" dir="s" state="o"/>

<connection from="e10\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_21\_0" tl="n\_center" linkIndex="21" dir="L" state="o"/>

<connection from="e10\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_22\_0" tl="n\_center" linkIndex="22" dir="l" state="o"/>

<connection from="e10\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_23\_0" tl="n\_center" linkIndex="23" dir="t" state="o"/>

<connection from="e11" to="e5" fromLane="0" toLane="0" via=":n5\_3\_0" dir="r" state="m"/>

<connection from="e11" to="e4\_rev" fromLane="0" toLane="0" via=":n5\_4\_0" dir="l" state="m"/>

<connection from="e11" to="e11\_rev" fromLane="0" toLane="0" via=":n5\_5\_0" dir="t" state="m"/>

<connection from="e11\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_24\_0" tl="n\_center" linkIndex="24" dir="r" state="O"/>

<connection from="e11\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_25\_0" tl="n\_center" linkIndex="25" dir="R" state="O"/>

<connection from="e11\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_26\_0" tl="n\_center" linkIndex="26" dir="s" state="O"/>

<connection from="e11\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_27\_0" tl="n\_center" linkIndex="27" dir="L" state="o"/>

<connection from="e11\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_28\_0" tl="n\_center" linkIndex="28" dir="l" state="o"/>

<connection from="e11\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_29\_0" tl="n\_center" linkIndex="29" dir="t" state="o"/>

<connection from="e12" to="e6" fromLane="0" toLane="0" via=":n6\_3\_0" dir="r" state="m"/>

<connection from="e12" to="e5\_rev" fromLane="0" toLane="0" via=":n6\_4\_0" dir="l" state="m"/>

<connection from="e12" to="e12\_rev" fromLane="0" toLane="0" via=":n6\_5\_0" dir="t" state="m"/>

<connection from="e12\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_30\_0" tl="n\_center" linkIndex="30" dir="r" state="o"/>

<connection from="e12\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_31\_0" tl="n\_center" linkIndex="31" dir="R" state="o"/>

<connection from="e12\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_32\_0" tl="n\_center" linkIndex="32" dir="s" state="o"/>

<connection from="e12\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_33\_0" tl="n\_center" linkIndex="33" dir="L" state="o"/>

<connection from="e12\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_34\_0" tl="n\_center" linkIndex="34" dir="l" state="o"/>

<connection from="e12\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_35\_0" tl="n\_center" linkIndex="35" dir="t" state="o"/>

<connection from="e1\_rev" to="e6\_rev" fromLane="0" toLane="0" via=":n1\_0\_0" dir="L" state="M"/>

<connection from="e1\_rev" to="e7\_rev" fromLane="0" toLane="0" via=":n1\_1\_0" dir="l" state="m"/>

<connection from="e1\_rev" to="e1" fromLane="0" toLane="0" via=":n1\_2\_0" dir="t" state="m"/>

<connection from="e2" to="e9\_rev" fromLane="0" toLane="0" via=":n3\_0\_0" dir="r" state="M"/>

<connection from="e2" to="e3" fromLane="0" toLane="0" via=":n3\_1\_0" dir="R" state="M"/>

<connection from="e2" to="e2\_rev" fromLane="0" toLane="0" via=":n3\_2\_0" dir="t" state="m"/>

<connection from="e2\_rev" to="e1\_rev" fromLane="0" toLane="0" via=":n2\_0\_0" dir="L" state="M"/>

<connection from="e2\_rev" to="e8\_rev" fromLane="0" toLane="0" via=":n2\_1\_0" dir="l" state="m"/>

<connection from="e2\_rev" to="e2" fromLane="0" toLane="0" via=":n2\_2\_0" dir="t" state="m"/>

<connection from="e3" to="e10\_rev" fromLane="0" toLane="0" via=":n4\_3\_0" dir="r" state="M"/>

<connection from="e3" to="e4" fromLane="0" toLane="0" via=":n4\_4\_0" dir="R" state="M"/>

<connection from="e3" to="e3\_rev" fromLane="0" toLane="0" via=":n4\_5\_0" dir="t" state="m"/>

<connection from="e3\_rev" to="e2\_rev" fromLane="0" toLane="0" via=":n3\_3\_0" dir="L" state="M"/>

<connection from="e3\_rev" to="e9\_rev" fromLane="0" toLane="0" via=":n3\_4\_0" dir="l" state="m"/>

<connection from="e3\_rev" to="e3" fromLane="0" toLane="0" via=":n3\_5\_0" dir="t" state="m"/>

<connection from="e4" to="e11\_rev" fromLane="0" toLane="0" via=":n5\_6\_0" dir="r" state="M"/>

<connection from="e4" to="e5" fromLane="0" toLane="0" via=":n5\_7\_0" dir="R" state="M"/>

<connection from="e4" to="e4\_rev" fromLane="0" toLane="0" via=":n5\_8\_0" dir="t" state="m"/>

<connection from="e4\_rev" to="e3\_rev" fromLane="0" toLane="0" via=":n4\_6\_0" dir="L" state="M"/>

<connection from="e4\_rev" to="e10\_rev" fromLane="0" toLane="0" via=":n4\_7\_0" dir="l" state="m"/>

<connection from="e4\_rev" to="e4" fromLane="0" toLane="0" via=":n4\_8\_0" dir="t" state="m"/>

<connection from="e5" to="e12\_rev" fromLane="0" toLane="0" via=":n6\_6\_0" dir="r" state="M"/>

<connection from="e5" to="e6" fromLane="0" toLane="0" via=":n6\_7\_0" dir="R" state="M"/>

<connection from="e5" to="e5\_rev" fromLane="0" toLane="0" via=":n6\_8\_0" dir="t" state="m"/>

<connection from="e5\_rev" to="e4\_rev" fromLane="0" toLane="0" via=":n5\_0\_0" dir="L" state="M"/>

<connection from="e5\_rev" to="e11\_rev" fromLane="0" toLane="0" via=":n5\_1\_0" dir="l" state="m"/>

<connection from="e5\_rev" to="e5" fromLane="0" toLane="0" via=":n5\_2\_0" dir="t" state="m"/>

<connection from="e6" to="e7\_rev" fromLane="0" toLane="0" via=":n1\_6\_0" dir="r" state="M"/>

<connection from="e6" to="e1" fromLane="0" toLane="0" via=":n1\_7\_0" dir="R" state="M"/>

<connection from="e6" to="e6\_rev" fromLane="0" toLane="0" via=":n1\_8\_0" dir="t" state="m"/>

<connection from="e6\_rev" to="e5\_rev" fromLane="0" toLane="0" via=":n6\_0\_0" dir="L" state="M"/>

<connection from="e6\_rev" to="e12\_rev" fromLane="0" toLane="0" via=":n6\_1\_0" dir="l" state="m"/>

<connection from="e6\_rev" to="e6" fromLane="0" toLane="0" via=":n6\_2\_0" dir="t" state="m"/>

<connection from="e7" to="e1" fromLane="0" toLane="0" via=":n1\_3\_0" dir="r" state="m"/>

<connection from="e7" to="e6\_rev" fromLane="0" toLane="0" via=":n1\_4\_0" dir="l" state="m"/>

<connection from="e7" to="e7\_rev" fromLane="0" toLane="0" via=":n1\_5\_0" dir="t" state="m"/>

<connection from="e7\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_0\_0" tl="n\_center" linkIndex="0" dir="r" state="o"/>

<connection from="e7\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_1\_0" tl="n\_center" linkIndex="1" dir="R" state="o"/>

<connection from="e7\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_2\_0" tl="n\_center" linkIndex="2" dir="s" state="o"/>

<connection from="e7\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_3\_0" tl="n\_center" linkIndex="3" dir="L" state="o"/>

<connection from="e7\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_4\_0" tl="n\_center" linkIndex="4" dir="l" state="o"/>

<connection from="e7\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_5\_0" tl="n\_center" linkIndex="5" dir="t" state="o"/>

<connection from="e8" to="e2" fromLane="0" toLane="0" via=":n2\_3\_0" dir="r" state="m"/>

<connection from="e8" to="e1\_rev" fromLane="0" toLane="0" via=":n2\_4\_0" dir="l" state="m"/>

<connection from="e8" to="e8\_rev" fromLane="0" toLane="0" via=":n2\_5\_0" dir="t" state="m"/>

<connection from="e8\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_6\_0" tl="n\_center" linkIndex="6" dir="r" state="O"/>

<connection from="e8\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_7\_0" tl="n\_center" linkIndex="7" dir="R" state="O"/>

<connection from="e8\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_8\_0" tl="n\_center" linkIndex="8" dir="s" state="O"/>

<connection from="e8\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_9\_0" tl="n\_center" linkIndex="9" dir="L" state="o"/>

<connection from="e8\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_10\_0" tl="n\_center" linkIndex="10" dir="l" state="o"/>

<connection from="e8\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_11\_0" tl="n\_center" linkIndex="11" dir="t" state="o"/>

<connection from="e9" to="e3" fromLane="0" toLane="0" via=":n3\_6\_0" dir="r" state="m"/>

<connection from="e9" to="e2\_rev" fromLane="0" toLane="0" via=":n3\_7\_0" dir="l" state="m"/>

<connection from="e9" to="e9\_rev" fromLane="0" toLane="0" via=":n3\_8\_0" dir="t" state="m"/>

<connection from="e9\_rev" to="e8" fromLane="0" toLane="0" via=":n\_center\_12\_0" tl="n\_center" linkIndex="12" dir="r" state="o"/>

<connection from="e9\_rev" to="e7" fromLane="0" toLane="0" via=":n\_center\_13\_0" tl="n\_center" linkIndex="13" dir="R" state="o"/>

<connection from="e9\_rev" to="e12" fromLane="0" toLane="0" via=":n\_center\_14\_0" tl="n\_center" linkIndex="14" dir="s" state="o"/>

<connection from="e9\_rev" to="e11" fromLane="0" toLane="0" via=":n\_center\_15\_0" tl="n\_center" linkIndex="15" dir="L" state="o"/>

<connection from="e9\_rev" to="e10" fromLane="0" toLane="0" via=":n\_center\_16\_0" tl="n\_center" linkIndex="16" dir="l" state="o"/>

<connection from="e9\_rev" to="e9" fromLane="0" toLane="0" via=":n\_center\_17\_0" tl="n\_center" linkIndex="17" dir="t" state="o"/>

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<connection from=":n1\_1" to="e7\_rev" fromLane="0" toLane="0" via=":n1\_9\_0" dir="l" state="m"/>

<connection from=":n1\_9" to="e7\_rev" fromLane="0" toLane="0" dir="l" state="M"/>

<connection from=":n1\_2" to="e1" fromLane="0" toLane="0" via=":n1\_10\_0" dir="t" state="m"/>

<connection from=":n1\_10" to="e1" fromLane="0" toLane="0" dir="t" state="M"/>

<connection from=":n1\_3" to="e1" fromLane="0" toLane="0" dir="r" state="M"/>

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<connection from=":n2\_9" to="e8\_rev" fromLane="0" toLane="0" dir="l" state="M"/>

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<connection from=":n2\_3" to="e2" fromLane="0" toLane="0" dir="r" state="M"/>

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<connection from=":n2\_11" to="e1\_rev" fromLane="0" toLane="0" dir="t" state="M"/>

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<connection from=":n5\_1" to="e11\_rev" fromLane="0" toLane="0" via=":n5\_9\_0" dir="l" state="m"/>

<connection from=":n5\_9" to="e11\_rev" fromLane="0" toLane="0" dir="l" state="M"/>

<connection from=":n5\_2" to="e5" fromLane="0" toLane="0" via=":n5\_10\_0" dir="t" state="m"/>

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<connection from=":n\_center\_7" to="e12" fromLane="0" toLane="0" dir="R" state="M"/>

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