BlueBlueV1 && RedRedV1

```
Start
  │
  ▼
SPECIMEN on
HIGH CHAMBER
  │
  ▼
SAMPLE into
OBSERVATION
ZONE
  │
  ▼
SPECIMEN off
wall
  │
  ├──────────────┐
  ▼              ▼
SPECIMEN on   movement with
HIGH CHAMBER   no lift
  │              │
  └──────┬───────┘
         ▼
SPECIMEN off
wall
  │
  ├──────────────┐
  ▼              ▼
SPECIMEN on   movement with
HIGH CHAMBER   no lift
  │              │
  └──────┬───────┘
         ▼
    parks in
  OBSERVATION
     ZONE
```
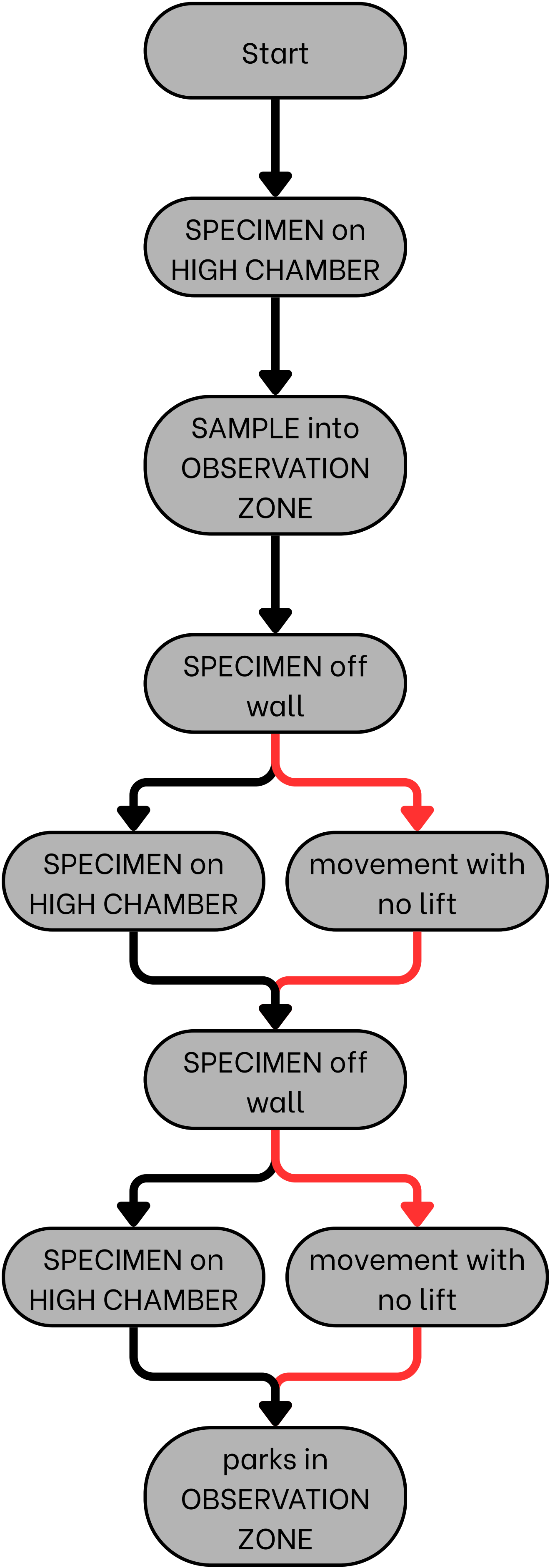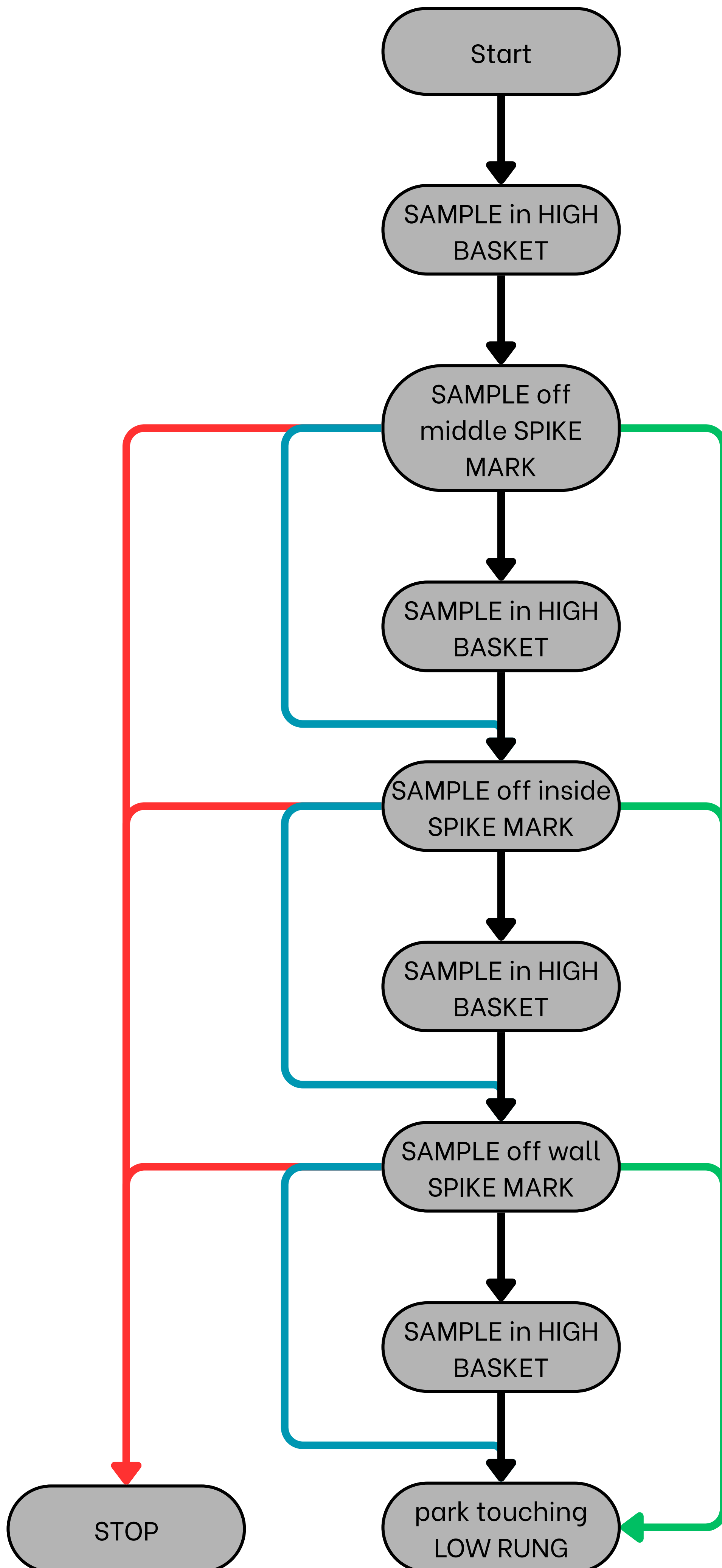
Failed Pick Up
Triggered If the robot rear distance sensors fail to read data

BlueYellowV3 && RedYellowV3

```
                          ┌─────────────┐
                          │    Start    │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE in   │
                          │ HIGH BASKET │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE off  │
                          │ middle SPIKE│
                          │    MARK     │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE in   │
                          │ HIGH BASKET │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE off  │
                          │ inside      │
                          │ SPIKE MARK  │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE in   │
                          │ HIGH BASKET │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE off  │
                          │ wall SPIKE  │
                          │    MARK     │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ SAMPLE in   │
                          │ HIGH BASKET │
                          └──────┬──────┘
                                 │
                                 ▼
                          ┌─────────────┐
                          │ park touching│
                          │  LOW RUNG   │
                          └─────────────┘

        ┌─────────────┐
        │    STOP     │
        └─────────────┘
```

Lift Failure
Triggered if the lift is not down in the set amount of time

Missed Pick Up
Triggered if the sample is not picked up in the set amount of time

Transfer Failure
Triggered if the transfer distance does not read data in the set amount of time