Practice Exercise
STRIPS planning

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1 Directed Questions

- The STRIPS representation for an action consists of what?
- What is the STRIPS assumption?
- What is the *frame problem* in planning? How does it relate to the STRIPS assumption?
- What are some key limitations of STRIPS?

2 STRIPS planning

Consider a scenario where you want to get from home (off campus) to UBC during a bus strike. You can either drive (if you have a car) or bike (if you have a bike). How would you represent this in STRIPS?

(a) What are the actions, preconditions and effects? What are the relevant variables?

(b) If we select the action $goByBike$, what is the value of $haveBike$ after the action has been carried out.

(c) If we are at UBC and and select the action $goByCar$, what will the value of loc be after the action has been carried out?

3 Learning Goals

You can:

- Represent a planning problem with the STRIPS representation.
- Explain the STRIPS assumption