In [11]:
```python
class ModelBasedVaccumAgent():
    def __init__(self,init_a,init_b):
        self.model = {"Loc_a": init_a,"Loc_b": init_b}
    def DoAction(self,location,status):
        self.model[location] = status
        print(self.model)
        if self.model["Loc_a"] == self.model["Loc_b"] == "clean":
            return "NOOP"
        elif status == "dirty":
            return "Suck"
        elif location == "Loc_a":
            return "Right"
        else:
            return "Left"


locA=input("Enter status for Location A");
locB=input("Enter status for Location B");

a=ModelBasedVaccumAgent(locA,locB)
print(a.DoAction("Loc_A",locA))
```

```
Enter status for Location Aclean
Enter status for Location Bdirty
{'Loc_a': 'clean', 'Loc_b': 'dirty', 'Loc_A': 'clean'}
Left
```

In [4]:

```
Enter status for Location Asadf
```

In [ ]: