

mars_planner_states

decomposed=False, search_func=breadth_first_search:

```
Goal found
Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None
```

States generated: 12

```
Location: battery
Sample Extracted?: True
```

```
Holding Sample?: False
Holding Tool?: False
Charged? True
```

```
decomposed=True, search_func=depth_first_search
```

```
Solving move to sample...
Goal found
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None
```

```
States generated: 3
```

```
Move to sample result:
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
```

```
Solving remove sample...
```

```
state:Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
```

```
state:Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
```

Charged? False

Goal found

Location: sample

Sample Extracted?: False

Holding Sample?: False

Holding Tool?: False

Charged? False

Location: station

Sample Extracted?: False

Holding Sample?: False

Holding Tool?: False

Charged? False

None

States generated: 3

Remove sample result:

Location: sample

Sample Extracted?: False

Holding Sample?: True

Holding Tool?: False

Charged? False

Solving return to charger...

Goal found

Location: battery

Sample Extracted?: True

Holding Sample?: False

Holding Tool?: False

Charged? False

Location: station

Sample Extracted?: True

Holding Sample?: False

Holding Tool?: False

Charged? False

Location: station

Sample Extracted?: False

Holding Sample?: True

Holding Tool?: False

Charged? False

Location: sample

Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None

States generated: 12

Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? True

decomposed=False, search_func=depth_first_search, limit=0

Goal found
Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: True

```
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None
```

States generated: 9

```
Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? True
```

```
decomposed=False, search_func=depth_first_search, limit=10
```

```
Goal found
Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
```

Location: station
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None

States generated: 9

Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? True

decomposed=False, search_func=depth_first_search, limit=5

Goal not found within limit: 5
None

decomposed=True, search_func=depth_first_search, limit=0

Solving move to sample...

Goal found
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None

States generated: 4

Move to sample result:
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False

Solving remove sample...

state:Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False

state:Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False

state:Location: battery
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False

state:Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False

Goal found
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None

States generated: 5

Remove sample result:
Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False

Solving return to charger...
Goal found
Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: True
Holding Sample?: False

Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: True
Holding Tool?: False
Charged? False
Location: sample
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
Location: station
Sample Extracted?: False
Holding Sample?: False
Holding Tool?: False
Charged? False
None

States generated: 9

Location: battery
Sample Extracted?: True
Holding Sample?: False
Holding Tool?: False
Charged? True