```
2025-04-26 19:46:26,384 INFO Get plug request for a with action off
2025-04-26 19:46:26,384 INFO Setting state for a: oZ
2025-04-26 19:46:26,385 INFO Updated state for a: oZ
2025-04-26 19:46:26,435 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}}
2025-04-26 19:46:26,437 INFO Get plug request for b with action on
2025-04-26 19:46:26,437 INFO Setting state for b: on
2025-04-26 19:46:26,478 INFO Updated state for b: on
2025-04-26 19:46:26,528 INFO makePlug b → {name=b, power=0.000, state=on}
2025-04-26 19:46:26,531 INFO Get plug request for c with action off
2025-04-26 19:46:26,531 INFO Setting state for c: oZ
2025-04-26 19:46:26,572 INFO Updated state for c: oZ
2025-04-26 19:46:26,622 INFO makePlug c \rightarrow {name=c, power=0.000, state=off}
2025-04-26 19:46:26,626 INFO Get plug request for d with action toggle
2025-04-26 19:46:26,627 INFO Setting state for d: on
2025-04-26 19:46:26,668 INFO Updated state for d: on
2025-04-26 19:46:26,718 INFO makePlug d \rightarrow \{name=d, power=0.000, state=on\}
2025-04-26 19:46:26,722 INFO Get plug request for e with action on
2025-04-26 19:46:26,722 INFO Setting state for e: on
2025-04-26 19:46:26,764 INFO Updated state for e: on
2025-04-26 19:46:26,814 INFO makePlug e \rightarrow \{name=e, power=0.000, state=on\}
2025-04-26 19:46:26,818 INFO Get plug request for f with action off
2025-04-26 19:46:26,818 INFO Setting state for f: oZ
2025-04-26 19:46:26,860 INFO Updated state for f: oZ
2025-04-26 19:46:26,910 INFO makePlug f → {name=f, power=0.000, state=off}
2025-04-26 19:46:26,913 INFO Get plug request for g with action off
2025-04-26 19:46:26,913 INFO Setting state for g: oZ
```

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2025-04-26 19:46:26,954 INFO Updated state for g: oZ
2025-04-26 19:46:27,004 INFO makePlug g → {name=g, power=0.000, state=off}
2025-04-26 19:46:28,013 INFO Get plug request for a with action null
2025-04-26 19:46:28,014 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}
2025-04-26 19:46:28,024 INFO Get plug request for b with action null
2025-04-26 19:46:28,025 INFO makePlug b \rightarrow {name=b, power=0.000, state=on}
2025-04-26 19:46:28,031 INFO Get plug request for c with action null
2025-04-26 19:46:28,031 INFO makePlug c \rightarrow {name=c, power=0.000, state=off}
2025-04-26 19:46:28,034 INFO Get plug request for d with action null
2025-04-26 19:46:28,035 INFO makePlug d → {name=d, power=0.000, state=on}
2025-04-26 19:46:28,037 INFO Get plug request for e with action null
2025-04-26 19:46:28,037 INFO makePlug e \rightarrow \{name=e, power=0.000, state=on\}
2025-04-26 19:46:28,039 INFO Get plug request for f with action null
2025-04-26 19:46:28,040 INFO makePlug f \rightarrow \{name = f, power = 0.000, state = off\}
2025-04-26 19:46:28,042 INFO Get plug request for g with action null
2025-04-26 19:46:28,042 INFO makePlug g \rightarrow \{name=g, power=0.000, state=off\}
****** testCase01 of GradeP5: exception occured
org.apache.http.client.HttpResponseException: status code: 404
2025-04-26 19:46:28,064 INFO testCase01 of GradeP5: exception
org.apache.http.client.HttpResponseException: status code: 404
******************
2025-04-26 19:46:28,075 INFO Setting group z members [a, d]
2025-04-26 19:46:29,081 INFO Get plug request for a with action null
2025-04-26 19:46:29,082 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}
2025-04-26 19:46:29,089 INFO Get plug request for b with action null
2025-04-26 19:46:29,089 INFO makePlug b → {name=b, power=0.000, state=on}
2025-04-26 19:46:29,094 INFO Get plug request for c with action null
```

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2025-04-26 19:46:29,094 INFO makePlug c \rightarrow {name=c, power=0.000, state=off}
2025-04-26 19:46:29,097 INFO Get plug request for d with action null
2025-04-26 19:46:29,097 INFO makePlug d → {name=d, power=0.000, state=on}
2025-04-26 19:46:29,100 INFO Get plug request for e with action null
2025-04-26 19:46:29,100 INFO makePlug e → {name=e, power=0.000, state=on}
2025-04-26 19:46:29,103 INFO Get plug request for f with action null
2025-04-26 19:46:29,104 INFO makePlug f \rightarrow \{name = f, power = 0.000, state = off\}\}
2025-04-26 19:46:29,106 INFO Get plug request for g with action null
2025-04-26 19:46:29,106 INFO makePlug g → {name=g, power=0.000, state=off}
****** testCase02 of GradeP5: exception occured
org.apache.http.client.HttpResponseException: status code: 404
2025-04-26 19:46:29,110 INFO testCase02 of GradeP5: exception
org.apache.http.client.HttpResponseException: status code: 404
******************
2025-04-26 19:46:29,112 INFO Setting group y members [b, d, f]
2025-04-26 19:46:30,118 INFO Get plug request for a with action null
2025-04-26 19:46:30,119 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}
2025-04-26 19:46:30,126 INFO Get plug request for b with action null
2025-04-26 19:46:30,127 INFO makePlug b \rightarrow \{name=b, power=0.000, state=on\}
2025-04-26 19:46:30,132 INFO Get plug request for c with action null
2025-04-26 19:46:30,133 INFO makePlug c \rightarrow \{name=c, power=0.000, state=off\}
2025-04-26 19:46:30,136 INFO Get plug request for d with action null
2025-04-26 19:46:30,136 INFO makePlug d \rightarrow {name=d, power=0.000, state=on}
2025-04-26 19:46:30,139 INFO Get plug request for e with action null
2025-04-26 19:46:30,139 INFO makePlug e → {name=e, power=0.000, state=on}
2025-04-26 19:46:30,141 INFO Get plug request for f with action null
2025-04-26 19:46:30,141 INFO makePlug f \rightarrow \{name = f, power = 0.000, state = off\}\}
```

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2025-04-26 19:46:30,144 INFO Get plug request for g with action null
2025-04-26 19:46:30,144 INFO makePlug g → {name=g, power=0.000, state=off}
****** testCase03 of GradeP5: exception occured
org.apache.http.client.HttpResponseException: status code: 404
2025-04-26 19:46:30,155 INFO testCase03 of GradeP5: exception
org.apache.http.client.HttpResponseException: status code: 404
*******************
2025-04-26 19:46:30,159 INFO Setting group x members [a, c, e, g]
2025-04-26 19:46:31,166 INFO Get plug request for a with action null
2025-04-26 19:46:31,167 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}
2025-04-26 19:46:31,172 INFO Get plug request for b with action null
2025-04-26 19:46:31,173 INFO makePlug b \rightarrow {name=b, power=0.000, state=on}
2025-04-26 19:46:31,177 INFO Get plug request for c with action null
2025-04-26 19:46:31,178 INFO makePlug c \rightarrow {name=c, power=0.000, state=off}
2025-04-26 19:46:31,181 INFO Get plug request for d with action null
2025-04-26 19:46:31,181 INFO makePlug d \rightarrow \{name=d, power=0.000, state=on\}
2025-04-26 19:46:31,183 INFO Get plug request for e with action null
2025-04-26 19:46:31,183 INFO makePlug e \rightarrow \{name=e, power=0.000, state=on\}
2025-04-26 19:46:31,186 INFO Get plug request for f with action null
2025-04-26 19:46:31,186 INFO makePlug f \rightarrow \{name = f, power = 0.000, state = off\}\}
2025-04-26 19:46:31,187 INFO Get plug request for g with action null
2025-04-26 19:46:31,187 INFO makePlug g \rightarrow \{name=g, power=0.000, state=off\}
****** testCase04 of GradeP5: exception occured
org.apache.http.client.HttpResponseException: status code: 404
2025-04-26 19:46:31,191 INFO testCase04 of GradeP5: exception
org.apache.http.client.HttpResponseException: status code: 404
*******************
```

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2025-04-26 19:46:31,193 INFO Group x action on
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2025-04-26 19:46:31,193 INFO Group action on x with action on: members [a, c, e, g]

2025-04-26 19:46:31,193 INFO Setting state for a: on

2025-04-26 19:46:31,234 INFO Applied on to a

2025-04-26 19:46:31,234 INFO Updated state for a: on

2025-04-26 19:46:31,234 INFO Setting state for c: on

2025-04-26 19:46:31,316 INFO Applied on to c

2025-04-26 19:46:31,316 INFO Updated state for c: on

2025-04-26 19:46:31,316 INFO Setting state for e: on

2025-04-26 19:46:31,398 INFO Applied on to e

2025-04-26 19:46:31,398 INFO Updated state for e: on

2025-04-26 19:46:31,398 INFO Setting state for g: on

2025-04-26 19:46:31,480 INFO Applied on to g

2025-04-26 19:46:31,481 INFO Updated state for g: on

2025-04-26 19:46:31,581 INFO Group response \rightarrow {members=[{name=a, power=0.000, state=on}, {name=c, power=0.000, state=on}, {name=e, power=0.000, state=on}, {name=x}

2025-04-26 19:46:31,585 INFO Group y action off

2025-04-26 19:46:31,585 INFO Group action on y with action off: members [b, d, f]

2025-04-26 19:46:31,585 INFO Setting state for b: oZ

2025-04-26 19:46:31,626 INFO Applied off to b

2025-04-26 19:46:31,627 INFO Updated state for b: oZ

2025-04-26 19:46:31,627 INFO Setting state for d: oZ

2025-04-26 19:46:31,709 INFO Applied off to d

2025-04-26 19:46:31,709 INFO Updated state for d: oZ

2025-04-26 19:46:31,710 INFO Setting state for f: oZ

2025-04-26 19:46:31,793 INFO Applied off to f

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2025-04-26 19:46:31,794 INFO Updated state for f: oZ
2025-04-26 19:46:31,894 INFO Group response → {members=[{name=b, power=0.000,
state=off}, {name=d, power=0.000, state=off}, {name=f, power=0.000, state=off}], name=y}
2025-04-26 19:46:32,902 INFO Get plug request for a with action null
2025-04-26 19:46:32,902 INFO makePlug a \rightarrow {name=a, power=0.000, state=on}
2025-04-26 19:46:32,909 INFO Get plug request for b with action null
2025-04-26 19:46:32,910 INFO makePlug b \rightarrow {name=b, power=0.000, state=off}
2025-04-26 19:46:32,914 INFO Get plug request for c with action null
2025-04-26 19:46:32,915 INFO makePlug c → {name=c, power=0.000, state=on}
2025-04-26 19:46:32,917 INFO Get plug request for d with action null
2025-04-26 19:46:32,918 INFO makePlug d \rightarrow {name=d, power=0.000, state=off}}
2025-04-26 19:46:32,920 INFO Get plug request for e with action null
2025-04-26 19:46:32,920 INFO makePlug e → {name=e, power=0.000, state=on}
2025-04-26 19:46:32,922 INFO Get plug request for f with action null
2025-04-26 19:46:32,922 INFO makePlug f → {name=f, power=0.000, state=off}
2025-04-26 19:46:32,923 INFO Get plug request for g with action null
2025-04-26 19:46:32,924 INFO makePlug g → {name=g, power=0.000, state=on}
****** testCase05 of GradeP5: exception occured
org.apache.http.client.HttpResponseException: status code: 404
2025-04-26 19:46:32,927 INFO testCase05 of GradeP5: exception
org.apache.http.client.HttpResponseException: status code: 404
*******************
2025-04-26 19:46:32,929 INFO Group z action toggle
2025-04-26 19:46:32,929 INFO Group action on z with action toggle: members [a, d]
2025-04-26 19:46:32,929 INFO Setting state for a: oZ
2025-04-26 19:46:32,971 INFO Applied toggle to a
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2025-04-26 19:46:32,972 INFO Updated state for a: oZ

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2025-04-26 19:46:32,972 INFO Setting state for d: on
```

2025-04-26 19:46:33,055 INFO Applied toggle to d

2025-04-26 19:46:33,055 INFO Updated state for d: on

2025-04-26 19:46:33,157 INFO Group response \rightarrow {members=[{name=a, power=0.000, state=off}, {name=d, power=0.000, state=on}], name=z}

2025-04-26 19:46:34,166 INFO Get plug request for a with action null

2025-04-26 19:46:34,167 INFO makePlug a \rightarrow {name=a, power=0.000, state=off}

2025-04-26 19:46:34,171 INFO Get plug request for b with action null

2025-04-26 19:46:34,172 INFO makePlug b \rightarrow {name=b, power=0.000, state=off}

2025-04-26 19:46:34,178 INFO Get plug request for c with action null

2025-04-26 19:46:34,178 INFO makePlug c → {name=c, power=0.000, state=on}

2025-04-26 19:46:34,181 INFO Get plug request for d with action null

2025-04-26 19:46:34,181 INFO makePlug d → {name=d, power=0.000, state=on}

2025-04-26 19:46:34,182 INFO Get plug request for e with action null

2025-04-26 19:46:34,182 INFO makePlug e → {name=e, power=0.000, state=on}

2025-04-26 19:46:34,184 INFO Get plug request for f with action null

2025-04-26 19:46:34,184 INFO makePlug $f \rightarrow \{name = f, power = 0.000, state = off\}$

2025-04-26 19:46:34,186 INFO Get plug request for g with action null

2025-04-26 19:46:34,186 INFO makePlug g → {name=g, power=0.000, state=on}

****** testCase06 of GradeP5: exception occured

org.apache.http.client.HttpResponseException: status code: 404

2025-04-26 19:46:34,192 INFO testCase06 of GradeP5: exception

org.apache.http.client.HttpResponseException: status code: 404