Actions

mc: move clockwise
mac: move anticlockwise
nm: no move
puc: pick up coffee
dc: deliver coffee
pum: pick up mail
dm: deliver mail

① $\langle mr,\overline{rhc},swc,mw,\overline{rhm}\rangle$

pum

mc

puc

② $\langle mr,\overline{rhc},swc,mw,rhm\rangle$

③ $\langle cs,\overline{rhc},swc,mw,\overline{rhm}\rangle$

④ $\langle mr,rhc,swc,mw,\overline{rhm}\rangle$

mac

mc

mc

puc

$\langle lab,rhc,swc,mw,\overline{rhm}\rangle$ ⑤

$\langle off,\overline{rhc},swc,mw,\overline{rhm}\rangle$

$\langle cs,rhc,\overline{swc},mw,\overline{rhm}\rangle$

⑥

⑦

mc

$\langle cs,\overline{rhc},swc,mw,rhm\rangle$

⑩

$\langle mr,rhc,swc,mw,\overline{rhm}\rangle$

mac

⑧

Locations:
cs: coffee shop
off: office
lab: laboratory
mr: mail room

Feature values
rhc: robot has coffee
swc: Sam wants coffee
mw: mail waiting
rhm: robot has mail

$\langle off,rhc,swc,mw,\overline{rhm}\rangle$

⑨

puc

$\langle cs,\overline{rhc},swc,mw,rhm\rangle$ ⑪