(J_4, J_3)

$(0, 0)$

$\downarrow$ Fill J_4 from tap

$(4, 0)$

$\downarrow$ Transfer J_4's content to J_3

$(1, 3)$

$\downarrow$ Empty J_3 into drain

$(1, 0)$

$\downarrow$ Transfer J_4's content to J_3

$(0, 1)$

$\downarrow$ fill J_4 from tap

$(4, 1)$

$\downarrow$ Transfer J_4's content to J_3

$(2, 4)$