coffeeDrinker_unbounded.imi

machine → **idle** | True

researcher → **researching** | $p\_work\_max >= y1$

4 clocks	6 parameters	Initial
x1 x2 y1 y2	p_add_sugar p_coffee p_work_min p_work_max p_press_min p_patience_max	p_add_sugar >= 0 & p_coffee >= 0 & p_work_min >= 0 & p_work_max >= y1 & p_press_min >= 0 & p_patience_max >= 0 & y1 >= 0 & p_work_max >= p_work_min & x1 = 0 & x2 = 0

press
x1 := 0;   x2 := 0;

add_sugar | $p\_add\_sugar >= x2$ & $p\_coffee >= x2$

press
x1 := 0;

x1 = 10
sleep

press
x1 := 0;   x2 := 0;

p_add_sugar = x2
cup

preparing_coffee | $p\_coffee >= x2$

press

p_coffee = x2
coffee
x1 := 0;

cdone | $10 >= x1$

y1 >= p_work_min
press
y1 := 0;   y2 := 0;

add_sugar | $p\_patience\_max >= y2$

y1 >= p_press_min
press
y1 := 0;

p_patience_max > y2
coffee
y1 := 0;   y2 := 0;

p_patience_max = y2

wait_coffee | $p\_patience\_max >= y2$

p_patience_max = y2

mad | True