

ec_0

q_0	
$True$	$x \mapsto x_0, sum \mapsto sum_0, cl \mapsto 0$

 ec_1 $sum \mapsto 0$ $(\#_1, \delta!)$ ec_5 $cl \mapsto \#_1$ tr_1
 $(\#_1, In? x_1)$ ec_2

q_1	
$1 \leq x_1 \leq 10$	$x \mapsto x_1, sum \mapsto x_1$

 tr_2
 $(\#_2, Out! \$_1)$ tr_3
 $(\#_2, Out! \$_1)$ $(\#_2, \delta!)$ ec_3 ec_4 ec_6

q_0
$1 \leq x_1 \leq 10 \wedge$ $x_1 \leq 5 \wedge \#_2 = 42 - x_1 \wedge$ $\$1 = 0$
$cl \mapsto \#_2$

q_0
$1 \leq x_1 \leq 10 \wedge$ $x_1 > 5 \wedge \#_2 = 42 - x_1 \wedge$ $\$1 = x_1$
$cl \mapsto \#_2$

$1 \leq x_1 \leq 10 \wedge$ $\left(\begin{array}{l} \left(\begin{array}{l} \exists \# \cdot \exists \$1 \cdot \#_2 < \# \wedge \\ x_1 \leq 5 \wedge \# = 42 - x_1 \wedge \\ \$1 = 0 \end{array} \right) \\ \vee \\ \left(\begin{array}{l} \exists \# \cdot \exists \$1 \cdot \#_2 < \# \wedge \\ x_1 > 5 \wedge \# = 42 - x_1 \wedge \\ \$1 = x_1 \end{array} \right) \end{array} \right)$
$cl \mapsto \#_2$