$$(4) \text{ vend:} 0[\mathbf{r}_{2} < 100]/[\mathbf{r}_{1} := \mathbf{r}_{1}, \mathbf{r}_{2} := \mathbf{r}_{2}]$$

$$(3) \text{ coin:} 1/o_{1} := \mathbf{r}_{2} + \mathbf{i}_{1}[\mathbf{r}_{1}] := \mathbf{r}_{1}, \mathbf{r}_{2} := \mathbf{r}_{2} + \mathbf{i}_{1}]$$

$$(2) \text{ coin:} 1/o_{1} := \mathbf{r}_{2} + \mathbf{i}_{1}[\mathbf{r}_{1}] := \mathbf{r}_{1}, \mathbf{r}_{2} := \mathbf{r}_{2} + \mathbf{i}_{1}]$$

$$(1) \text{ vend:} 0/[\mathbf{r}_{1} := \mathbf{i}_{1}, \mathbf{r}_{2} := \mathbf{r}_{2}]$$

$$(5) \text{ vend:} 0[\mathbf{r}_{2} \ge 100]/o_{1} := \mathbf{r}_{1}[\mathbf{r}_{1} := \mathbf{r}_{1}, \mathbf{r}_{2} := \mathbf{r}_{2}]$$