

(a)

 $v_1 = \text{OX}()$ $(i \% 2)?$ $v_2 = \phi(v_1)$ $\text{tmp} = i + 1$ $v_7 = \phi(v_1)$ $v_3 = \text{OY}()$ $v_2.m_1() \parallel v_4 = v_2$ $v_3.m_2() \parallel v_5 = v_3$ $v_6 = \phi(v_4, v_5)$ $v_6.m_3()$

(b)

 $v_1 = \text{OX}()$ $(i \% 2)?$ $\text{tmp} = i + 1$ $v_3 = \text{OY}()$ $v_1.m_1()$ $v_3.m_2()$ $v_6 = \phi(v_1, v_3)$ $v_6.m_3()$