```
def test(i):
                                                             l_i: v = new OX()
                                                                                                                       l_i: v = new OX()
   v = OX()
                                                                                                                                    \{m_1, m_3\}
   if i % 2:
                                                                  l<sub>2</sub>: (i%2)?
                                                                                                                            l<sub>2</sub>: (i%2)?
        tmp = i + 1
                                                                                                                \{m_1, m_3\}
        v.m1(tmp)
                                                 l_3: tmp = i + 1
                                                                              l_5: v = new OY()
   else:
                                                                                                           l_3: tmp = i + 1
                                                                                                                                        l_5: v = new OY()
        v = OY()
                                                                                                                     \{m_1, m_3\}
                                                                                                                                       \{m_2, m_3\}
                                                    l_4: v.m<sub>1</sub>()
                                                                                   l_6: v.m<sub>2</sub>()
        v.m2()
                                                                                                              l_4: v.m<sub>1</sub>()
                                                                                                                                             l_6: v.m<sub>2</sub>()
   print v.m3()
                                                                   l_7: v.m<sub>3</sub>()
                                                                                                                    \{m_3
                                                                                                                                              \{m_3\}
(a)
                                                     (b)
                                                                                                          (c)
                                                                                                                             l_7: v.m<sub>3</sub>()
                             l_1: v_1 = \text{new OX}()
                                                                                                   I(v_6) = \{m_3\}
                                                                                                   I(v_5) = I(v_6)
                               l<sub>2</sub>: (i%2)?
                                  (\mathbf{v}_2, \mathbf{v}_7) = \sigma \mathbf{v}_1
                                                                                                   I(v_4) = I(v_6)
                                              l_5: v_3 = \text{new OY}()
                  l_3: tmp = i + 1
                                                                                                   I(v_2) = \{m_1\} \cup I(v_4)
                                                                                                   I(v_3) = \{m_2\} \cup I(v_5)
                   l_4: v_2.m_1()
                                                  l_6: v_3.m_2()
                      (\mathbf{v}_4) = (\mathbf{v}_2)
                                                      (\mathbf{v}_5) = (\mathbf{v}_3)
                                                                                                   I(v_7) = \{\}
                                                                                                   I(v_1) = I(v_2) \cup I(v_7)
                               l_7: v_6 = \varphi(v_4, v_5)
```

(e)

 $v_6.m_3()$ 

(d)