```
Insert:
      READ A+0, c2
      READ A+1, c1
      QUIT

c1:   RECEIVE -> n
      SIGNAL c2
      QUIT

c2:   RECEIVE(2) -> set
      IFZERO set GOTO l1
      READ set+1, c3
      QUIT

l1:   ALLOCATE 2 -> set'
      WRITE n, set'+0
      WRITE nil, set'+1
      RETURN set'

c3:   RECEIVE -> m
      IFGREATER m, n goto l2
      READ set+1, c4
      QUIT

l2:   ALLOCATE 2 -> set'
      WRITE n, set'+0
      WRITE set, set'+1
      RETURN set'

c4:   RECEIVE -> rest
      ALLOCATE 2 -> arg
      WRITE rest, arg+0
      WRITE n, arg+1
      APPLY Insert, arg, c5

c5:   CONTINUE -> new
      ALLOCATE 2 -> set'
      WRITE n, set'+0
      WRITE new, set'+1
      RETURN set'
```