```
k_1 = \phi(k_0, k_2)
 k = 0
                                k_0 = 0 _____

\begin{array}{c}
\stackrel{\cdot}{\longrightarrow} (k_1 < 100)? \\
\stackrel{\cdot}{\longrightarrow} f & t \\
\end{array}

 while k < 100:
                             k_f = k_1 \cap [100, +\infty] \quad k_f = k_1 \cap [-\infty, 99]
    i = 0
                                                          i_0 = 0
                             print k<sub>f</sub>
                                                           j_0 = k_+
    j = k
    while i < j:
                                                        i_1 = \phi(i_0, i_2)
                                                       \rightarrow j_1 = \phi(j_0, j_2)
       i = i + 1
                                                        (i_1 < j_1)?
        j = j - 1
                                 i_+ = i_1 \cap [-\infty, \mathbf{ft}(j_1) - 1]
    k = k + 1
                                 j_{+} = j_{1} \cap [\mathbf{ft}(i_{1}), +\infty] \qquad k_{2} = k_{+} + 1
                                 i_2 = i_+ + 1
 print k
                                 j_2 = j_t - 1
                  (a)
                                                                                    (b)
       K_0 = 0
                                                          I[i_0] = [0, 0]
       K_{+} = K_{1} \cap [-\infty, 99]
                                                          I[i_1] = [0, 99]
       K_f = K_1 \cap [100, +\infty]
                                                        I[i_2] = [1, 99]
       K_1 = \phi (K_0, K_2)
                                                         I[i_+] = [0, 98]
       I_0 = 0
                                                          I[j_0] = [0, 99]
       j_0 = K_+
                                                          I[\dot{j}_1] = [-1, 99]
       I_1 = \phi (I_0, I_2)
                                                       I[j_2] = [-1, 98]
       J_1 = \phi (J_0, J_2)
                                                        I[j_+] = [0, 99]
       I_f = I_1 \cap [-\infty, \mathbf{ft}(J_1) - 1]
                                                         I[k_0] = [0, 0]
       J_{+} = J_{1} \cap [\mathbf{ft}(I_{1}), +\infty]
                                                     I[k_1] = [0, 100]
       I_2 = I_+ + 1
                                                         I[k_2] = [1, 100]
      J_2 = J_+ - 1
                                                     I[k_{+}] = [0, 99]
(c) K_2 = K_+ + 1
                                                   (d) I[k_+] = [100, 100]
```