

Example of Operation

$B - w^0 w^0$
 $B \quad B \quad B$
 B
 B

\downarrow
 $w^1 w^0 w^0$
 $B \quad w^1 \quad B$
 B
 B

\downarrow
 $w^1 w^0 w^0$
 $B \quad w^1 \quad w^1$
 B
 B

\downarrow
 $w^1 w^0 w^0$
 $w^2 w^1 w^1$
 B
 B

\downarrow
 $w^1 w^0 w^0$
 $w^1 w^1 w^1$
 w^3
 B

Queue: $w^0 w^0 w^1 w^1 w^1 w^2 w^3$

blackPebbles = $HTT1 \Rightarrow IIII \Rightarrow III \Rightarrow II \Rightarrow I$

currentIteration = $000xxx23$

currentPebble = $w^0 w^0 w^1 w^1 w^1 w^2 w^3$

return iterationLevel 3 and True ✓