

Terms 25 through 69 following initial conditions of $B_{\bar{N}}$

Assuming that $N \geq 67$, these are terms 25 through 69 of $B_{\bar{N}}$ following the initial conditions. Below are calculations of all of these terms along with the necessary lower bound on N for each calculation to be valid.

$$\begin{aligned}
 B_{\bar{N}}(N+25) &= B_{\bar{N}}(N+25 - B_{\bar{N}}(N+24)) + B_{\bar{N}}(N+25 - B_{\bar{N}}(N+23)) \\
 &\quad + B_{\bar{N}}(N+25 - B_{\bar{N}}(N+22)) \\
 &= B_{\bar{N}}(N+25 - (2N+11)) + B_{\bar{N}}(N+25 - 21) + B_{\bar{N}}(N+25 - 22) \\
 &= B_{\bar{N}}(-N+14) + B_{\bar{N}}(N+4) + B_{\bar{N}}(N+3) \\
 &= 0 + (N+3) + (N+2) = 2N+5 \\
 &\quad (N \geq 14)
 \end{aligned}$$

$$\begin{aligned}
 B_{\bar{N}}(N+26) &= B_{\bar{N}}(N+26 - B_{\bar{N}}(N+25)) + B_{\bar{N}}(N+26 - B_{\bar{N}}(N+24)) \\
 &\quad + B_{\bar{N}}(N+26 - B_{\bar{N}}(N+23)) \\
 &= B_{\bar{N}}(N+26 - (2N+5)) + B_{\bar{N}}(N+26 - (2N+11)) + B_{\bar{N}}(N+26 - 21) \\
 &= B_{\bar{N}}(-N+21) + B_{\bar{N}}(-N+15) + B_{\bar{N}}(N+5) = 0 + 0 + 9 = 9 \\
 &\quad (N \geq 21)
 \end{aligned}$$

$$\begin{aligned}
 B_{\bar{N}}(N+27) &= B_{\bar{N}}(N+27 - B_{\bar{N}}(N+26)) + B_{\bar{N}}(N+27 - B_{\bar{N}}(N+25)) \\
 &\quad + B_{\bar{N}}(N+27 - B_{\bar{N}}(N+24)) \\
 &= B_{\bar{N}}(N+27 - 9) + B_{\bar{N}}(N+27 - (2N+5)) + B_{\bar{N}}(N+27 - (2N+11)) \\
 &= B_{\bar{N}}(N+18) + B_{\bar{N}}(-N+22) + B_{\bar{N}}(-N+16) = 18 + 0 + 0 = 18 \\
 &\quad (N \geq 22)
 \end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+28) &= B_{\bar{N}}(N+28 - B_{\bar{N}}(N+27)) + B_{\bar{N}}(N+28 - B_{\bar{N}}(N+26)) \\
&\quad + B_{\bar{N}}(N+28 - B_{\bar{N}}(N+25)) \\
&= B_{\bar{N}}(N+28 - 18) + B_{\bar{N}}(N+28 - 9) + B_{\bar{N}}(N+28 - (2N+5)) \\
&= B_{\bar{N}}(N+10) + B_{\bar{N}}(N+19) + B_{\bar{N}}(-N+23) \\
&= (N+7) + (N+13) + 0 = 2N+20 \\
&\quad (N \geq 23)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+29) &= B_{\bar{N}}(N+29 - B_{\bar{N}}(N+28)) + B_{\bar{N}}(N+29 - B_{\bar{N}}(N+27)) \\
&\quad + B_{\bar{N}}(N+29 - B_{\bar{N}}(N+26)) \\
&= B_{\bar{N}}(N+29 - (2N+20)) + B_{\bar{N}}(N+29 - 18) + B_{\bar{N}}(N+29 - 9) \\
&= B_{\bar{N}}(-N+9) + B_{\bar{N}}(N+11) + B_{\bar{N}}(N+20) \\
&= 0 + (N+8) + (N+15) = 2N+23 \\
&\quad (N \geq 9)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+30) &= B_{\bar{N}}(N+30 - B_{\bar{N}}(N+29)) + B_{\bar{N}}(N+30 - B_{\bar{N}}(N+28)) \\
&\quad + B_{\bar{N}}(N+30 - B_{\bar{N}}(N+27)) \\
&= B_{\bar{N}}(N+30 - (2N+23)) + B_{\bar{N}}(N+30 - (2N+20)) + B_{\bar{N}}(N+30 - 18) \\
&= B_{\bar{N}}(-N+7) + B_{\bar{N}}(-N+10) + B_{\bar{N}}(N+12) = 0 + 0 + (N+9) = N+9 \\
&\quad (N \geq 10)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+31) &= B_{\bar{N}}(N+31 - B_{\bar{N}}(N+30)) + B_{\bar{N}}(N+31 - B_{\bar{N}}(N+29)) \\
&\quad + B_{\bar{N}}(N+31 - B_{\bar{N}}(N+28)) \\
&= B_{\bar{N}}(N+31 - (N+9)) + B_{\bar{N}}(N+31 - (2N+23)) \\
&\quad + B_{\bar{N}}(N+31 - (2N+20)) \\
&= B_{\bar{N}}(22) + B_{\bar{N}}(-N+8) + B_{\bar{N}}(-N+11) = 22 + 0 + 0 = 22 \\
&\quad (N \geq 22)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+32) &= B_{\bar{N}}(N+32 - B_{\bar{N}}(N+31)) + B_{\bar{N}}(N+32 - B_{\bar{N}}(N+30)) \\
&\quad + B_{\bar{N}}(N+32 - B_{\bar{N}}(N+29)) \\
&= B_{\bar{N}}(N+32 - 22) + B_{\bar{N}}(N+32 - (N+9)) + B_{\bar{N}}(N+32 - (2N+23)) \\
&= B_{\bar{N}}(N+10) + B_{\bar{N}}(23) + B_{\bar{N}}(-N+9) = (N+7) + 23 + 0 = N+30 \\
&\quad (N \geq 23)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+33) &= B_{\bar{N}}(N+33 - B_{\bar{N}}(N+32)) + B_{\bar{N}}(N+33 - B_{\bar{N}}(N+31)) \\
&\quad + B_{\bar{N}}(N+33 - B_{\bar{N}}(N+30)) \\
&= B_{\bar{N}}(N+33 - (N+30)) + B_{\bar{N}}(N+33 - 22) + B_{\bar{N}}(N+33 - (N+9)) \\
&= B_{\bar{N}}(3) + B_{\bar{N}}(N+11) + B_{\bar{N}}(24) = 3 + (N+8) + 24 = N+35 \\
&\quad (N \geq 24)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+34) &= B_{\bar{N}}(N+34 - B_{\bar{N}}(N+33)) + B_{\bar{N}}(N+34 - B_{\bar{N}}(N+32)) \\
&\quad + B_{\bar{N}}(N+34 - B_{\bar{N}}(N+31)) \\
&= B_{\bar{N}}(N+34 - (N+35)) + B_{\bar{N}}(N+34 - (N+30)) + B_{\bar{N}}(N+34 - 22) \\
&= B_{\bar{N}}(-1) + B_{\bar{N}}(4) + B_{\bar{N}}(N+12) = 0 + 4 + (N+9) = N+13 \\
&\quad (N \geq 4)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+35) &= B_{\bar{N}}(N+35 - B_{\bar{N}}(N+34)) + B_{\bar{N}}(N+35 - B_{\bar{N}}(N+33)) \\
&\quad + B_{\bar{N}}(N+35 - B_{\bar{N}}(N+32)) \\
&= B_{\bar{N}}(N+35 - (N+13)) + B_{\bar{N}}(N+35 - (N+35)) \\
&\quad + B_{\bar{N}}(N+35 - (N+30)) \\
&= B_{\bar{N}}(22) + B_{\bar{N}}(0) + B_{\bar{N}}(5) = 22 + 0 + 5 = 27 \\
&\quad (N \geq 22)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+36) &= B_{\bar{N}}(N+36 - B_{\bar{N}}(N+35)) + B_{\bar{N}}(N+36 - B_{\bar{N}}(N+34)) \\
&\quad + B_{\bar{N}}(N+36 - B_{\bar{N}}(N+33)) \\
&= B_{\bar{N}}(N+36 - 27) + B_{\bar{N}}(N+36 - (N+13)) + B_{\bar{N}}(N+36 - (N+35)) \\
&= B_{\bar{N}}(N+9) + B_{\bar{N}}(23) + B_{\bar{N}}(1) = 12 + 23 + 1 = 36 \\
&(N \geq 23)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+37) &= B_{\bar{N}}(N+37 - B_{\bar{N}}(N+36)) + B_{\bar{N}}(N+37 - B_{\bar{N}}(N+35)) \\
&\quad + B_{\bar{N}}(N+37 - B_{\bar{N}}(N+34)) \\
&= B_{\bar{N}}(N+37 - 36) + B_{\bar{N}}(N+37 - 27) + B_{\bar{N}}(N+37 - (N+13)) \\
&= B_{\bar{N}}(N+1) + B_{\bar{N}}(N+10) + B_{\bar{N}}(24) = 6 + (N+7) + 24 = N+37 \\
&(N \geq 24)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+38) &= B_{\bar{N}}(N+38 - B_{\bar{N}}(N+37)) + B_{\bar{N}}(N+38 - B_{\bar{N}}(N+36)) \\
&\quad + B_{\bar{N}}(N+38 - B_{\bar{N}}(N+35)) \\
&= B_{\bar{N}}(N+38 - (N+37)) + B_{\bar{N}}(N+38 - 36) + B_{\bar{N}}(N+38 - 27) \\
&= B_{\bar{N}}(1) + B_{\bar{N}}(N+2) + B_{\bar{N}}(N+11) = 1 + (N+1) + (N+8) = 2N+10 \\
&(N \geq 1)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+39) &= B_{\bar{N}}(N+39 - B_{\bar{N}}(N+38)) + B_{\bar{N}}(N+39 - B_{\bar{N}}(N+37)) \\
&\quad + B_{\bar{N}}(N+39 - B_{\bar{N}}(N+36)) \\
&= B_{\bar{N}}(N+39 - (2N+10)) + B_{\bar{N}}(N+39 - (N+37)) + B_{\bar{N}}(N+39 - 36) \\
&= B_{\bar{N}}(-N+29) + B_{\bar{N}}(2) + B_{\bar{N}}(N+3) = 0 + 2 + (N+2) = N+4 \\
&(N \geq 29)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+40) &= B_{\bar{N}}(N+40 - B_{\bar{N}}(N+39)) + B_{\bar{N}}(N+40 - B_{\bar{N}}(N+38)) \\
&\quad + B_{\bar{N}}(N+40 - B_{\bar{N}}(N+37)) \\
&= B_{\bar{N}}(N+40 - (N+4)) + B_{\bar{N}}(N+40 - (2N+10)) \\
&\quad + B_{\bar{N}}(N+40 - (N+37)) \\
&= B_{\bar{N}}(36) + B_{\bar{N}}(-N+30) + B_{\bar{N}}(3) = 36 + 0 + 3 = 39 \\
&\quad (N \geq 36)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+41) &= B_{\bar{N}}(N+41 - B_{\bar{N}}(N+40)) + B_{\bar{N}}(N+41 - B_{\bar{N}}(N+39)) \\
&\quad + B_{\bar{N}}(N+41 - B_{\bar{N}}(N+38)) \\
&= B_{\bar{N}}(N+41 - 39) + B_{\bar{N}}(N+41 - (N+4)) + B_{\bar{N}}(N+41 - (2N+10)) \\
&= B_{\bar{N}}(N+2) + B_{\bar{N}}(37) + B_{\bar{N}}(-N+31) = (N+1) + 37 + 0 = N+38 \\
&\quad (N \geq 37)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+42) &= B_{\bar{N}}(N+42 - B_{\bar{N}}(N+41)) + B_{\bar{N}}(N+42 - B_{\bar{N}}(N+40)) \\
&\quad + B_{\bar{N}}(N+42 - B_{\bar{N}}(N+39)) \\
&= B_{\bar{N}}(N+42 - (N+38)) + B_{\bar{N}}(N+42 - 39) + B_{\bar{N}}(N+42 - (N+4)) \\
&= B_{\bar{N}}(4) + B_{\bar{N}}(N+3) + B_{\bar{N}}(38) = 4 + (N+2) + 38 = N+44 \\
&\quad (N \geq 38)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+43) &= B_{\bar{N}}(N+43 - B_{\bar{N}}(N+42)) + B_{\bar{N}}(N+43 - B_{\bar{N}}(N+41)) \\
&\quad + B_{\bar{N}}(N+43 - B_{\bar{N}}(N+40)) \\
&= B_{\bar{N}}(N+43 - (N+44)) + B_{\bar{N}}(N+43 - (N+38)) + B_{\bar{N}}(N+43 - 39) \\
&= B_{\bar{N}}(-1) + B_{\bar{N}}(5) + B_{\bar{N}}(N+4) = 0 + 5 + (N+3) = N+8 \\
&\quad (N \geq 5)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+44) &= B_{\bar{N}}(N+44 - B_{\bar{N}}(N+43)) + B_{\bar{N}}(N+44 - B_{\bar{N}}(N+42)) \\
&\quad + B_{\bar{N}}(N+44 - B_{\bar{N}}(N+41)) \\
&= B_{\bar{N}}(N+44 - (N+8)) + B_{\bar{N}}(N+44 - (N+44)) \\
&\quad + B_{\bar{N}}(N+44 - (N+38)) \\
&= B_{\bar{N}}(36) + B_{\bar{N}}(0) + B_{\bar{N}}(6) = 36 + 0 + 6 = 42 \\
&\quad (N \geq 36)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+45) &= B_{\bar{N}}(N+45 - B_{\bar{N}}(N+44)) + B_{\bar{N}}(N+45 - B_{\bar{N}}(N+43)) \\
&\quad + B_{\bar{N}}(N+45 - B_{\bar{N}}(N+42)) \\
&= B_{\bar{N}}(N+45 - 42) + B_{\bar{N}}(N+45 - (N+8)) + B_{\bar{N}}(N+45 - (N+44)) \\
&= B_{\bar{N}}(N+3) + B_{\bar{N}}(37) + B_{\bar{N}}(1) = (N+2) + 37 + 1 = N+40 \\
&\quad (N \geq 37)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+46) &= B_{\bar{N}}(N+46 - B_{\bar{N}}(N+45)) + B_{\bar{N}}(N+46 - B_{\bar{N}}(N+44)) \\
&\quad + B_{\bar{N}}(N+46 - B_{\bar{N}}(N+43)) \\
&= B_{\bar{N}}(N+46 - (N+40)) + B_{\bar{N}}(N+46 - 42) + B_{\bar{N}}(N+46 - (N+8)) \\
&= B_{\bar{N}}(6) + B_{\bar{N}}(N+4) + B_{\bar{N}}(38) = 6 + (N+3) + 38 = N+47 \\
&\quad (N \geq 38)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+47) &= B_{\bar{N}}(N+47 - B_{\bar{N}}(N+46)) + B_{\bar{N}}(N+47 - B_{\bar{N}}(N+45)) \\
&\quad + B_{\bar{N}}(N+47 - B_{\bar{N}}(N+44)) \\
&= B_{\bar{N}}(N+47 - (N+47)) + B_{\bar{N}}(N+47 - (N+40)) \\
&\quad + B_{\bar{N}}(N+47 - 42) \\
&= B_{\bar{N}}(0) + B_{\bar{N}}(7) + B_{\bar{N}}(N+5) = 0 + 7 + 9 = 16 \\
&\quad (N \geq 7)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+48) &= B_{\bar{N}}(N+48 - B_{\bar{N}}(N+47)) + B_{\bar{N}}(N+48 - B_{\bar{N}}(N+46)) \\
&\quad + B_{\bar{N}}(N+48 - B_{\bar{N}}(N+45)) \\
&= B_{\bar{N}}(N+48 - 16) + B_{\bar{N}}(N+48 - (N+47)) + B_{\bar{N}}(N+48 - (N+40)) \\
&= B_{\bar{N}}(N+32) + B_{\bar{N}}(1) + B_{\bar{N}}(8) = (N+30) + 1 + 8 = N+39 \\
&\quad (N \geq 8)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+49) &= B_{\bar{N}}(N+49 - B_{\bar{N}}(N+48)) + B_{\bar{N}}(N+49 - B_{\bar{N}}(N+47)) \\
&\quad + B_{\bar{N}}(N+49 - B_{\bar{N}}(N+46)) \\
&= B_{\bar{N}}(N+49 - (N+39)) + B_{\bar{N}}(N+49 - 16) + B_{\bar{N}}(N+49 - (N+47)) \\
&= B_{\bar{N}}(10) + B_{\bar{N}}(N+33) + B_{\bar{N}}(2) = 10 + (N+35) + 2 = N+47 \\
&\quad (N \geq 10)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+50) &= B_{\bar{N}}(N+50 - B_{\bar{N}}(N+49)) + B_{\bar{N}}(N+50 - B_{\bar{N}}(N+48)) \\
&\quad + B_{\bar{N}}(N+50 - B_{\bar{N}}(N+47)) \\
&= B_{\bar{N}}(N+50 - (N+47)) + B_{\bar{N}}(N+50 - (N+39)) + B_{\bar{N}}(N+50 - 16) \\
&= B_{\bar{N}}(3) + B_{\bar{N}}(11) + B_{\bar{N}}(N+34) = 3 + 11 + (N+13) = N+27 \\
&\quad (N \geq 11)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+51) &= B_{\bar{N}}(N+51 - B_{\bar{N}}(N+50)) + B_{\bar{N}}(N+51 - B_{\bar{N}}(N+49)) \\
&\quad + B_{\bar{N}}(N+51 - B_{\bar{N}}(N+48)) \\
&= B_{\bar{N}}(N+51 - (N+27)) + B_{\bar{N}}(N+51 - (N+47)) \\
&\quad + B_{\bar{N}}(N+51 - (N+39)) \\
&= B_{\bar{N}}(24) + B_{\bar{N}}(4) + B_{\bar{N}}(12) = 24 + 4 + 12 = 40 \\
&\quad (N \geq 24)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+52) &= B_{\bar{N}}(N+52 - B_{\bar{N}}(N+51)) + B_{\bar{N}}(N+52 - B_{\bar{N}}(N+50)) \\
&\quad + B_{\bar{N}}(N+52 - B_{\bar{N}}(N+49)) \\
&= B_{\bar{N}}(N+52 - 40) + B_{\bar{N}}(N+52 - (N+27)) + B_{\bar{N}}(N+52 - (N+47)) \\
&= B_{\bar{N}}(N+12) + B_{\bar{N}}(25) + B_{\bar{N}}(5) = (N+9) + 25 + 5 = N+39 \\
&\quad (N \geq 25)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+53) &= B_{\bar{N}}(N+53 - B_{\bar{N}}(N+52)) + B_{\bar{N}}(N+53 - B_{\bar{N}}(N+51)) \\
&\quad + B_{\bar{N}}(N+53 - B_{\bar{N}}(N+50)) \\
&= B_{\bar{N}}(N+53 - (N+39)) + B_{\bar{N}}(N+53 - 40) + B_{\bar{N}}(N+53 - (N+27)) \\
&= B_{\bar{N}}(14) + B_{\bar{N}}(N+13) + B_{\bar{N}}(26) = 14 + 15 + 26 = 55 \\
&\quad (N \geq 26)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+54) &= B_{\bar{N}}(N+54 - B_{\bar{N}}(N+53)) + B_{\bar{N}}(N+54 - B_{\bar{N}}(N+52)) \\
&\quad + B_{\bar{N}}(N+54 - B_{\bar{N}}(N+51)) \\
&= B_{\bar{N}}(N+54 - 55) + B_{\bar{N}}(N+54 - (N+39)) + B_{\bar{N}}(N+54 - 40) \\
&= B_{\bar{N}}(N-1) + B_{\bar{N}}(15) + B_{\bar{N}}(N+14) \\
&= (N-1) + 15 + (N+10) = 2N+24 \\
&\quad (N \geq 15)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+55) &= B_{\bar{N}}(N+55 - B_{\bar{N}}(N+54)) + B_{\bar{N}}(N+55 - B_{\bar{N}}(N+53)) \\
&\quad + B_{\bar{N}}(N+55 - B_{\bar{N}}(N+52)) \\
&= B_{\bar{N}}(N+55 - (2N+24)) + B_{\bar{N}}(N+55 - 55) + B_{\bar{N}}(N+55 - (N+39)) \\
&= B_{\bar{N}}(-N+31) + B_{\bar{N}}(N) + B_{\bar{N}}(16) = 0 + N + 16 = N+16 \\
&\quad (N \geq 31)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+56) &= B_{\bar{N}}(N+56 - B_{\bar{N}}(N+55)) + B_{\bar{N}}(N+56 - B_{\bar{N}}(N+54)) \\
&\quad + B_{\bar{N}}(N+56 - B_{\bar{N}}(N+53)) \\
&= B_{\bar{N}}(N+56 - (N+16)) + B_{\bar{N}}(N+56 - (2N+24)) + B_{\bar{N}}(N+56 - 55) \\
&= B_{\bar{N}}(40) + B_{\bar{N}}(-N+32) + B_{\bar{N}}(N+1) = 40 + 0 + 6 = 46 \\
&\quad (N \geq 40)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+57) &= B_{\bar{N}}(N+57 - B_{\bar{N}}(N+56)) + B_{\bar{N}}(N+57 - B_{\bar{N}}(N+55)) \\
&\quad + B_{\bar{N}}(N+57 - B_{\bar{N}}(N+54)) \\
&= B_{\bar{N}}(N+57 - 46) + B_{\bar{N}}(N+57 - (N+16)) + B_{\bar{N}}(N+57 - (2N+24)) \\
&= B_{\bar{N}}(N+11) + B_{\bar{N}}(41) + B_{\bar{N}}(-N+33) = (N+8) + 41 + 0 = N+49 \\
&\quad (N \geq 41)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+58) &= B_{\bar{N}}(N+58 - B_{\bar{N}}(N+57)) + B_{\bar{N}}(N+58 - B_{\bar{N}}(N+56)) \\
&\quad + B_{\bar{N}}(N+58 - B_{\bar{N}}(N+55)) \\
&= B_{\bar{N}}(N+58 - (N+49)) + B_{\bar{N}}(N+58 - 46) + B_{\bar{N}}(N+58 - (N+16)) \\
&= B_{\bar{N}}(9) + B_{\bar{N}}(N+12) + B_{\bar{N}}(42) = 9 + (N+9) + 42 = N+60 \\
&\quad (N \geq 42)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+59) &= B_{\bar{N}}(N+59 - B_{\bar{N}}(N+58)) + B_{\bar{N}}(N+59 - B_{\bar{N}}(N+57)) \\
&\quad + B_{\bar{N}}(N+59 - B_{\bar{N}}(N+56)) \\
&= B_{\bar{N}}(N+59 - (N+60)) + B_{\bar{N}}(N+59 - (N+49)) + B_{\bar{N}}(N+59 - 46) \\
&= B_{\bar{N}}(-1) + B_{\bar{N}}(10) + B_{\bar{N}}(N+13) = 0 + 10 + 15 = 25 \\
&\quad (N \geq 10)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+60) &= B_{\bar{N}}(N+60 - B_{\bar{N}}(N+59)) + B_{\bar{N}}(N+60 - B_{\bar{N}}(N+58)) \\
&\quad + B_{\bar{N}}(N+60 - B_{\bar{N}}(N+57)) \\
&= B_{\bar{N}}(N+60 - 25) + B_{\bar{N}}(N+60 - (N+60)) + B_{\bar{N}}(N+60 - (N+49)) \\
&= B_{\bar{N}}(N+35) + B_{\bar{N}}(0) + B_{\bar{N}}(11) = 27 + 0 + 11 = 38 \\
&(N \geq 11)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+61) &= B_{\bar{N}}(N+61 - B_{\bar{N}}(N+60)) + B_{\bar{N}}(N+61 - B_{\bar{N}}(N+59)) \\
&\quad + B_{\bar{N}}(N+61 - B_{\bar{N}}(N+58)) \\
&= B_{\bar{N}}(N+61 - 38) + B_{\bar{N}}(N+61 - 25) + B_{\bar{N}}(N+61 - (N+60)) \\
&= B_{\bar{N}}(N+23) + B_{\bar{N}}(N+36) + B_{\bar{N}}(1) = 21 + 36 + 1 = 58 \\
&(N \geq 1)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+62) &= B_{\bar{N}}(N+62 - B_{\bar{N}}(N+61)) + B_{\bar{N}}(N+62 - B_{\bar{N}}(N+60)) \\
&\quad + B_{\bar{N}}(N+62 - B_{\bar{N}}(N+59)) \\
&= B_{\bar{N}}(N+62 - 58) + B_{\bar{N}}(N+62 - 38) + B_{\bar{N}}(N+62 - 25) \\
&= B_{\bar{N}}(N+4) + B_{\bar{N}}(N+24) + B_{\bar{N}}(N+37) \\
&= (N+3) + (2N+11) + (N+37) = 4N+51 \\
&(N \geq 1)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+63) &= B_{\bar{N}}(N+63 - B_{\bar{N}}(N+62)) + B_{\bar{N}}(N+63 - B_{\bar{N}}(N+61)) \\
&\quad + B_{\bar{N}}(N+63 - B_{\bar{N}}(N+60)) \\
&= B_{\bar{N}}(N+63 - (4N+51)) + B_{\bar{N}}(N+63 - 58) + B_{\bar{N}}(N+63 - 38) \\
&= B_{\bar{N}}(-3N+12) + B_{\bar{N}}(N+5) + B_{\bar{N}}(N+25) \\
&= 0 + 9 + (2N+5) = 2N+14 \\
&(N \geq 4)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+64) &= B_{\bar{N}}(N+64 - B_{\bar{N}}(N+63)) + B_{\bar{N}}(N+64 - B_{\bar{N}}(N+62)) \\
&\quad + B_{\bar{N}}(N+64 - B_{\bar{N}}(N+61)) \\
&= B_{\bar{N}}(N+64 - (2N+14)) + B_{\bar{N}}(N+64 - (4N+51)) + B_{\bar{N}}(N+64 - 58) \\
&= B_{\bar{N}}(-N+50) + B_{\bar{N}}(-3N+13) + B_{\bar{N}}(N+6) \\
&= 0 + 0 + (N+4) = N+4 \\
&\quad (N \geq 50)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+65) &= B_{\bar{N}}(N+65 - B_{\bar{N}}(N+64)) + B_{\bar{N}}(N+65 - B_{\bar{N}}(N+63)) \\
&\quad + B_{\bar{N}}(N+65 - B_{\bar{N}}(N+62)) \\
&= B_{\bar{N}}(N+65 - (N+4)) + B_{\bar{N}}(N+65 - (2N+14)) \\
&\quad + B_{\bar{N}}(N+65 - (4N+51)) \\
&= B_{\bar{N}}(61) + B_{\bar{N}}(-N+51) + B_{\bar{N}}(-3N+14) = 61 + 0 + 0 = 61 \\
&\quad (N \geq 61)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+66) &= B_{\bar{N}}(N+66 - B_{\bar{N}}(N+65)) + B_{\bar{N}}(N+66 - B_{\bar{N}}(N+64)) \\
&\quad + B_{\bar{N}}(N+66 - B_{\bar{N}}(N+63)) \\
&= B_{\bar{N}}(N+66 - 61) + B_{\bar{N}}(N+66 - (N+4)) + B_{\bar{N}}(N+66 - (2N+14)) \\
&= B_{\bar{N}}(N+5) + B_{\bar{N}}(62) + B_{\bar{N}}(-N+52) = 9 + 62 + 0 = 71 \\
&\quad (N \geq 62)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+67) &= B_{\bar{N}}(N+67 - B_{\bar{N}}(N+66)) + B_{\bar{N}}(N+67 - B_{\bar{N}}(N+65)) \\
&\quad + B_{\bar{N}}(N+67 - B_{\bar{N}}(N+64)) \\
&= B_{\bar{N}}(N+67 - 71) + B_{\bar{N}}(N+67 - 61) + B_{\bar{N}}(N+67 - (N+4)) \\
&= B_{\bar{N}}(N-4) + B_{\bar{N}}(N+6) + B_{\bar{N}}(63) \\
&= (N-4) + (N+4) + 63 = 2N+63 \\
&\quad (N \geq 63)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+68) &= B_{\bar{N}}(N+68 - B_{\bar{N}}(N+67)) + B_{\bar{N}}(N+68 - B_{\bar{N}}(N+66)) \\
&\quad + B_{\bar{N}}(N+68 - B_{\bar{N}}(N+65)) \\
&= B_{\bar{N}}(N+68 - (2N+63)) + B_{\bar{N}}(N+68 - 71) + B_{\bar{N}}(N+68 - 61) \\
&= B_{\bar{N}}(-N+5) + B_{\bar{N}}(N-3) + B_{\bar{N}}(N+7) \\
&= 0 + (N-3) + (N+5) = 2N+2 \\
&\quad (N \geq 5)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(N+69) &= B_{\bar{N}}(N+69 - B_{\bar{N}}(N+68)) + B_{\bar{N}}(N+69 - B_{\bar{N}}(N+67)) \\
&\quad + B_{\bar{N}}(N+69 - B_{\bar{N}}(N+66)) \\
&= B_{\bar{N}}(N+69 - (2N+2)) + B_{\bar{N}}(N+69 - (2N+63)) + B_{\bar{N}}(N+69 - 71) \\
&= B_{\bar{N}}(-N+67) + B_{\bar{N}}(-N+6) + B_{\bar{N}}(N-2) = 0 + 0 + (N-2) = N-2 \\
&\quad (N \geq 67)
\end{aligned}$$