Terms $B_{\bar{N}}(2N-1)$ through $B_{\bar{N}}(2N+254)$ when $N \equiv 1 \pmod 7$

When $N \equiv 1 \pmod 7$ and $N \geq 72$, a pattern with 7 interleaved linear sequences lasts from index $N+67$ through $2N-2$. If $N \geq 2087$, there are 256 terms after this pattern ends. Below are calculations of all of these terms along with the necessary lower bound on N for each calculation to be valid. Record large N bounds exceeding 72 are noted with asterisks.

$$\begin{aligned}
B_{\bar{N}}(2N-1) &= B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-2)) + B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-3)) + B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-4)) \\
&= B_{\bar{N}}(2N-1-(N-2)) + B_{\bar{N}}\left(2N-1-\left(\frac{15N}{7}-\frac{57}{7}\right)\right) + B_{\bar{N}}\left(2N-1-\left(\frac{16N}{7}+\frac{299}{7}\right)\right) \\
&= B_{\bar{N}}(N+1) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{50}{7}\right) + B_{\bar{N}}\left(-\frac{2N}{7}-\frac{306}{7}\right) = 6+0+0=6 \\
&(N \geq 71)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(2N) &= B_{\bar{N}}(2N-B_{\bar{N}}(2N-1)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-2)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-3)) \\
&= B_{\bar{N}}(2N-6) + B_{\bar{N}}(2N-(N-2)) + B_{\bar{N}}\left(2N-\left(\frac{15N}{7}-\frac{57}{7}\right)\right) \\
&= B_{\bar{N}}(2N-6) + B_{\bar{N}}(N+2) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{57}{7}\right) = (2N-4)+(N+1)+0 = 3N-3 \\
&(N \geq 73)*
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(2N+1) &= B_{\bar{N}}(2N+1-B_{\bar{N}}(2N)) + B_{\bar{N}}(2N+1-B_{\bar{N}}(2N-1)) + B_{\bar{N}}(2N+1-B_{\bar{N}}(2N-2)) \\
&= B_{\bar{N}}(2N+1-(3N-3)) + B_{\bar{N}}(2N+1-6) + B_{\bar{N}}(2N+1-(N-2)) \\
&= B_{\bar{N}}(-N+4) + B_{\bar{N}}(2N-5) + B_{\bar{N}}(N+3) = 0+7+(N+2) = N+9 \\
&(N \geq 72)
\end{aligned}$$

$$
\begin{aligned}
B_{\bar{N}}(2N+2) &= B_{\bar{N}}(2N+2-B_{\bar{N}}(2N+1)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N-1)) \\
&= B_{\bar{N}}(2N+2-(N+9)) + B_{\bar{N}}(2N+2-(3N-3)) + B_{\bar{N}}(2N+2-6) \\
&= B_{\bar{N}}(N-7) + B_{\bar{N}}(-N+5) + B_{\bar{N}}(2N-4) = (N-7) + 0 + \left(\frac{16N}{7} + \frac{299}{7}\right) = \frac{23N}{7} + \frac{250}{7} \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+3) &= B_{\bar{N}}(2N+3-B_{\bar{N}}(2N+2)) + B_{\bar{N}}(2N+3-B_{\bar{N}}(2N+1)) + B_{\bar{N}}(2N+3-B_{\bar{N}}(2N)) \\
&= B_{\bar{N}}\left(2N+3-\left(\frac{23N}{7} + \frac{250}{7}\right)\right) + B_{\bar{N}}(2N+3-(N+9)) + B_{\bar{N}}(2N+3-(3N-3)) \\
&= B_{\bar{N}}\left(-\frac{9N}{7} - \frac{229}{7}\right) + B_{\bar{N}}(N-6) + B_{\bar{N}}(-N+6) = 0 + (N-6) + 0 = N-6 \\
&(N \geq 7)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+4) &= B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+3)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+2)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+1)) \\
&= B_{\bar{N}}(2N+4-(N-6)) + B_{\bar{N}}\left(2N+4-\left(\frac{23N}{7} + \frac{250}{7}\right)\right) + B_{\bar{N}}(2N+4-(N+9)) \\
&= B_{\bar{N}}(N+10) + B_{\bar{N}}\left(-\frac{9N}{7} - \frac{222}{7}\right) + B_{\bar{N}}(N-5) = (N+7) + 0 + (N-5) = 2N+2 \\
&(N \geq 8)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+5) &= B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+4)) + B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+3)) + B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+2)) \\
&= B_{\bar{N}}(2N+5-(2N+2)) + B_{\bar{N}}(2N+5-(N-6)) + B_{\bar{N}}\left(2N+5-\left(\frac{23N}{7} + \frac{250}{7}\right)\right) \\
&= B_{\bar{N}}(3) + B_{\bar{N}}(N+11) + B_{\bar{N}}\left(-\frac{9N}{7} - \frac{215}{7}\right) = 3 + (N+8) + 0 = N+11 \\
&(N \geq 9)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+6) &= B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+4)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+3)) \\
&= B_{\bar{N}}(2N+6-(N+11)) + B_{\bar{N}}(2N+6-(2N+2)) + B_{\bar{N}}(2N+6-(N-6)) \\
&= B_{\bar{N}}(N-5) + B_{\bar{N}}(4) + B_{\bar{N}}(N+12) = (N-5)+4+(N+9) = 2N+8 \\
&(N \geq 10)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+7) &= B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+4)) \\
&= B_{\bar{N}}(2N+7-(2N+8)) + B_{\bar{N}}(2N+7-(N+11)) + B_{\bar{N}}(2N+7-(2N+2)) \\
&= B_{\bar{N}}(-1) + B_{\bar{N}}(N-4) + B_{\bar{N}}(5) = 0+(N-4)+5 = N+1 \\
&(N \geq 77) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+8) &= B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+5)) \\
&= B_{\bar{N}}(2N+8-(N+1)) + B_{\bar{N}}(2N+8-(2N+8)) + B_{\bar{N}}(2N+8-(N+11)) \\
&= B_{\bar{N}}(N+7) + B_{\bar{N}}(0) + B_{\bar{N}}(N-3) = (N+5)+0+(N-3) = 2N+2 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+9) &= B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+6)) \\
&= B_{\bar{N}}(2N+9-(2N+2)) + B_{\bar{N}}(2N+9-(N+1)) + B_{\bar{N}}(2N+9-(2N+8)) \\
&= B_{\bar{N}}(7) + B_{\bar{N}}(N+8) + B_{\bar{N}}(1) = 7+(N+6)+1 = N+14 \\
&(N \geq 105) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+10) &= B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+7)) \\
&= B_{\bar{N}}(2N+10-(N+14)) + B_{\bar{N}}(2N+10-(2N+2)) + B_{\bar{N}}(2N+10-(N+1)) \\
&= B_{\bar{N}}(N-4) + B_{\bar{N}}(8) + B_{\bar{N}}(N+9) = (N-4)+8+12 = N+16 \\
&(N \geq 112) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+11) &= B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+10)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+8)) \\
&= B_{\bar{N}}(2N+11-(N+16)) + B_{\bar{N}}(2N+11-(N+14)) + B_{\bar{N}}(2N+11-(2N+2)) \\
&= B_{\bar{N}}(N-5) + B_{\bar{N}}(N-3) + B_{\bar{N}}(9) = (N-5)+(N-3)+9 = 2N+1 \\
&(N \geq 119) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+12) &= B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+11)) + B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+10)) + B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+9)) \\
&= B_{\bar{N}}(2N+12-(2N+1)) + B_{\bar{N}}(2N+12-(N+16)) + B_{\bar{N}}(2N+12-(N+14)) \\
&= B_{\bar{N}}(11) + B_{\bar{N}}(N-4) + B_{\bar{N}}(N-2) = 11+(N-4)+(N-2) = 2N+5 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+13) &= B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+12)) + B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+11)) + B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+10)) \\
&= B_{\bar{N}}(2N+13-(2N+5)) + B_{\bar{N}}(2N+13-(2N+1)) + B_{\bar{N}}(2N+13-(N+16)) \\
&= B_{\bar{N}}(8) + B_{\bar{N}}(12) + B_{\bar{N}}(N-3) = 8+12+(N-3) = N+17 \\
&(N \geq 12)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+14) &= B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+13)) + B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+12)) + B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+11)) \\
&= B_{\bar{N}}(2N+14-(N+17)) + B_{\bar{N}}(2N+14-(2N+5)) + B_{\bar{N}}(2N+14-(2N+1)) \\
&= B_{\bar{N}}(N-3) + B_{\bar{N}}(9) + B_{\bar{N}}(13) = (N-3)+9+13 = N+19 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+15) &= B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+14)) + B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+13)) + B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+12)) \\
&= B_{\bar{N}}(2N+15-(N+19)) + B_{\bar{N}}(2N+15-(N+17)) + B_{\bar{N}}(2N+15-(2N+5)) \\
&= B_{\bar{N}}(N-4) + B_{\bar{N}}(N-2) + B_{\bar{N}}(10) = (N-4)+(N-2)+10 = 2N+4 \\
&(N \geq 15)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+16) &= B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+15)) + B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+14)) + B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+13)) \\
&= B_{\bar{N}}(2N+16-(2N+4)) + B_{\bar{N}}(2N+16-(N+19)) + B_{\bar{N}}(2N+16-(N+17)) \\
&= B_{\bar{N}}(12) + B_{\bar{N}}(N-3) + B_{\bar{N}}(N-1) = 12 + (N-3) + (N-1) = 2N+8 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+17) &= B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+16)) + B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+15)) + B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+14)) \\
&= B_{\bar{N}}(2N+17-(2N+8)) + B_{\bar{N}}(2N+17-(2N+4)) + B_{\bar{N}}(2N+17-(N+19)) \\
&= B_{\bar{N}}(9) + B_{\bar{N}}(13) + B_{\bar{N}}(N-2) = 9 + 13 + (N-2) = N+20 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+18) &= B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+17)) + B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+16)) + B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+15)) \\
&= B_{\bar{N}}(2N+18-(N+20)) + B_{\bar{N}}(2N+18-(2N+8)) + B_{\bar{N}}(2N+18-(2N+4)) \\
&= B_{\bar{N}}(N-2) + B_{\bar{N}}(10) + B_{\bar{N}}(14) = (N-2) + 10 + 14 = N+22 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+19) &= B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+18)) + B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+17)) + B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+16)) \\
&= B_{\bar{N}}(2N+19-(N+22)) + B_{\bar{N}}(2N+19-(N+20)) + B_{\bar{N}}(2N+19-(2N+8)) \\
&= B_{\bar{N}}(N-3) + B_{\bar{N}}(N-1) + B_{\bar{N}}(11) = (N-3) + (N-1) + 11 = 2N+7 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+20) &= B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+19)) + B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+18)) + B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+17)) \\
&= B_{\bar{N}}(2N+20-(2N+7)) + B_{\bar{N}}(2N+20-(N+22)) + B_{\bar{N}}(2N+20-(N+20)) \\
&= B_{\bar{N}}(13) + B_{\bar{N}}(N-2) + B_{\bar{N}}(N) = 13 + (N-2) + N = 2N+11 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+21) &= B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+19))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+18)) \\
&= B_{\bar{N}}(2N+21-(2N+11))+B_{\bar{N}}(2N+21-(2N+7))+B_{\bar{N}}(2N+21-(N+22)) \\
&= B_{\bar{N}}(10)+B_{\bar{N}}(14)+B_{\bar{N}}(N-1) = 10+14+(N-1) = N+23 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+22) &= B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+19)) \\
&= B_{\bar{N}}(2N+22-(N+23))+B_{\bar{N}}(2N+22-(2N+11))+B_{\bar{N}}(2N+22-(2N+7)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(11)+B_{\bar{N}}(15) = (N-1)+11+15 = N+25 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+23) &= B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+20)) \\
&= B_{\bar{N}}(2N+23-(N+25))+B_{\bar{N}}(2N+23-(N+23))+B_{\bar{N}}(2N+23-(2N+11)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N)+B_{\bar{N}}(12) = (N-2)+N+12 = 2N+10 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+24) &= B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+21)) \\
&= B_{\bar{N}}(2N+24-(2N+10))+B_{\bar{N}}(2N+24-(N+25))+B_{\bar{N}}(2N+24-(N+23)) \\
&= B_{\bar{N}}(14)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N+1) = 14+(N-1)+6 = N+19 \\
&(N \geq 79)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+25) &= B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+22)) \\
&= B_{\bar{N}}(2N+25-(N+19))+B_{\bar{N}}(2N+25-(2N+10))+B_{\bar{N}}(2N+25-(N+25)) \\
&= B_{\bar{N}}(N+6)+B_{\bar{N}}(15)+B_{\bar{N}}(N) = (N+4)+15+N = 2N+19 \\
&(N \geq 78)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+26) &= B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+23)) \\
&= B_{\bar{N}}(2N+26-(2N+19))+B_{\bar{N}}(2N+26-(N+19))+B_{\bar{N}}(2N+26-(2N+10)) \\
&= B_{\bar{N}}(7)+B_{\bar{N}}(N+7)+B_{\bar{N}}(16) = 7+(N+5)+16 = N+28 \\
&(N \geq 189)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+27) &= B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+24)) \\
&= B_{\bar{N}}(2N+27-(N+28))+B_{\bar{N}}(2N+27-(2N+19))+B_{\bar{N}}(2N+27-(N+19)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(8)+B_{\bar{N}}(N+8) = (N-1)+8+(N+6) = 2N+13 \\
&(N \geq 196)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+28) &= B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+25)) \\
&= B_{\bar{N}}(2N+28-(2N+13))+B_{\bar{N}}(2N+28-(N+28))+B_{\bar{N}}(2N+28-(2N+19)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(N)+B_{\bar{N}}(9) = 15+N+9 = N+24 \\
&(N \geq 15)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+29) &= B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+26)) \\
&= B_{\bar{N}}(2N+29-(N+24))+B_{\bar{N}}(2N+29-(2N+13))+B_{\bar{N}}(2N+29-(N+28)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(16)+B_{\bar{N}}(N+1) = 9+16+6 = 31 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+30) &= B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+27)) \\
&= B_{\bar{N}}(2N+30-31)+B_{\bar{N}}(2N+30-(N+24))+B_{\bar{N}}(2N+30-(2N+13)) \\
&= B_{\bar{N}}(2N-1)+B_{\bar{N}}(N+6)+B_{\bar{N}}(17) = 6+(N+4)+17 = N+27 \\
&(N \geq 17)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+31) &= B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+28)) \\
&= B_{\bar{N}}(2N+31-(N+27))+B_{\bar{N}}(2N+31-31)+B_{\bar{N}}(2N+31-(N+24)) \\
&= B_{\bar{N}}(N+4)+B_{\bar{N}}(2N)+B_{\bar{N}}(N+7) = (N+3)+(3N-3)+(N+5) = 5N+5 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+32) &= B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+29)) \\
&= B_{\bar{N}}(2N+32-(5N+5))+B_{\bar{N}}(2N+32-(N+27))+B_{\bar{N}}(2N+32-31) \\
&= B_{\bar{N}}(-3N+27)+B_{\bar{N}}(N+5)+B_{\bar{N}}(2N+1) = 0+9+(N+9) = N+18 \\
&(N \geq 9)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+33) &= B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+30)) \\
&= B_{\bar{N}}(2N+33-(N+18))+B_{\bar{N}}(2N+33-(5N+5))+B_{\bar{N}}(2N+33-(N+27)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(-3N+28)+B_{\bar{N}}(N+6) = (N+11)+0+(N+4) = 2N+15 \\
&(N \geq 10)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+34) &= B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+31)) \\
&= B_{\bar{N}}(2N+34-(2N+15))+B_{\bar{N}}(2N+34-(N+18))+B_{\bar{N}}(2N+34-(5N+5)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(N+16)+B_{\bar{N}}(-3N+29) = 19+17+0 = 36 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+35) &= B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+32)) \\
&= B_{\bar{N}}(2N+35-36)+B_{\bar{N}}(2N+35-(2N+15))+B_{\bar{N}}(2N+35-(N+18)) \\
&= B_{\bar{N}}(2N-1)+B_{\bar{N}}(20)+B_{\bar{N}}(N+17) = 6+20+(N+13) = N+39 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+36) &= B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+33)) \\
&= B_{\bar{N}}(2N+36-(N+39))+B_{\bar{N}}(2N+36-36)+B_{\bar{N}}(2N+36-(2N+15)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(2N)+B_{\bar{N}}(21) = (N-3)+(3N-3)+21 = 4N+15 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+37) &= B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+34)) \\
&= B_{\bar{N}}(2N+37-(4N+15))+B_{\bar{N}}(2N+37-(N+39))+B_{\bar{N}}(2N+37-36) \\
&= B_{\bar{N}}(-2N+22)+B_{\bar{N}}(N-2)+B_{\bar{N}}(2N+1) = 0+(N-2)+(N+9) = 2N+7 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+38) &= B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+35)) \\
&= B_{\bar{N}}(2N+38-(2N+7))+B_{\bar{N}}(2N+38-(4N+15))+B_{\bar{N}}(2N+38-(N+39)) \\
&= B_{\bar{N}}(31)+B_{\bar{N}}(-2N+23)+B_{\bar{N}}(N-1) = 31+0+(N-1) = N+30 \\
&(N \geq 31)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+39) &= B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+36)) \\
&= B_{\bar{N}}(2N+39-(N+30))+B_{\bar{N}}(2N+39-(2N+7))+B_{\bar{N}}(2N+39-(4N+15)) \\
&= B_{\bar{N}}(N+9)+B_{\bar{N}}(32)+B_{\bar{N}}(-2N+24) = 12+32+0 = 44 \\
&(N \geq 32)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+40) &= B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+37)) \\
&= B_{\bar{N}}(2N+40-44)+B_{\bar{N}}(2N+40-(N+30))+B_{\bar{N}}(2N+40-(2N+7)) \\
&= B_{\bar{N}}(2N-4)+B_{\bar{N}}(N+10)+B_{\bar{N}}(33) = \left(\frac{16N}{7}+\frac{299}{7}\right)+(N+7)+33 = \frac{23N}{7}+\frac{579}{7} \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+41) &= B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+38)) \\
&= B_{\bar{N}}\left(2N+41-\left(\frac{23N}{7}+\frac{579}{7}\right)\right)+B_{\bar{N}}(2N+41-44)+B_{\bar{N}}(2N+41-(N+30)) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}-\frac{292}{7}\right)+B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+11) = 0+\left(\frac{15N}{7}-\frac{57}{7}\right)+(N+8) = \frac{22N}{7}-\frac{1}{7} \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+42) &= B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+39)) \\
&= B_{\bar{N}}\left(2N+42-\left(\frac{22N}{7}-\frac{1}{7}\right)\right)+B_{\bar{N}}\left(2N+42-\left(\frac{23N}{7}+\frac{579}{7}\right)\right)+B_{\bar{N}}(2N+42-44) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{295}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}-\frac{285}{7}\right)+B_{\bar{N}}(2N-2) = 0+0+(N-2) = N-2 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+43) &= B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+40)) \\
&= B_{\bar{N}}(2N+43-(N-2))+B_{\bar{N}}\left(2N+43-\left(\frac{22N}{7}-\frac{1}{7}\right)\right)+B_{\bar{N}}\left(2N+43-\left(\frac{23N}{7}+\frac{579}{7}\right)\right) \\
&= B_{\bar{N}}(N+45)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{302}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}-\frac{278}{7}\right) = (N+40)+0+0 = N+40 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+44) &= B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+41)) \\
&= B_{\bar{N}}(2N+44-(N+40))+B_{\bar{N}}(2N+44-(N-2))+B_{\bar{N}}\left(2N+44-\left(\frac{22N}{7}-\frac{1}{7}\right)\right) \\
&= B_{\bar{N}}(N+4)+B_{\bar{N}}(N+46)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{309}{7}\right) = (N+3)+(N+47)+0 = 2N+50 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+45) &= B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+42)) \\
&= B_{\bar{N}}(2N+45-(2N+50))+B_{\bar{N}}(2N+45-(N+40))+B_{\bar{N}}(2N+45-(N-2)) \\
&= B_{\bar{N}}(-5)+B_{\bar{N}}(N+5)+B_{\bar{N}}(N+47)=0+9+16=25 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+46) &= B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+45))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+43)) \\
&= B_{\bar{N}}(2N+46-25)+B_{\bar{N}}(2N+46-(2N+50))+B_{\bar{N}}(2N+46-(N+40)) \\
&= B_{\bar{N}}(2N+21)+B_{\bar{N}}(-4)+B_{\bar{N}}(N+6)=(N+23)+0+(N+4)=2N+27 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+47) &= B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+46))+B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+45))+B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+44)) \\
&= B_{\bar{N}}(2N+47-(2N+27))+B_{\bar{N}}(2N+47-25)+B_{\bar{N}}(2N+47-(2N+50)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(2N+22)+B_{\bar{N}}(-3)=20+(N+25)+0=N+45 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+48) &= B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+47))+B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+46))+B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+45)) \\
&= B_{\bar{N}}(2N+48-(N+45))+B_{\bar{N}}(2N+48-(2N+27))+B_{\bar{N}}(2N+48-25) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(21)+B_{\bar{N}}(2N+23)=(N+2)+21+(2N+10)=3N+33 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+49) &= B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+48))+B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+47))+B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+46)) \\
&= B_{\bar{N}}(2N+49-(3N+33))+B_{\bar{N}}(2N+49-(N+45))+B_{\bar{N}}(2N+49-(2N+27)) \\
&= B_{\bar{N}}(-N+16)+B_{\bar{N}}(N+4)+B_{\bar{N}}(22)=0+(N+3)+22=N+25 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+50) &= B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+49))+B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+48))+B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+47)) \\
&= B_{\bar{N}}(2N+50-(N+25))+B_{\bar{N}}(2N+50-(3N+33))+B_{\bar{N}}(2N+50-(N+45)) \\
&= B_{\bar{N}}(N+25)+B_{\bar{N}}(-N+17)+B_{\bar{N}}(N+5) = (2N+5)+0+9 = 2N+14 \\
&(N \geq 17)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+51) &= B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+49))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+48)) \\
&= B_{\bar{N}}(2N+51-(2N+14))+B_{\bar{N}}(2N+51-(N+25))+B_{\bar{N}}(2N+51-(3N+33)) \\
&= B_{\bar{N}}(37)+B_{\bar{N}}(N+26)+B_{\bar{N}}(-N+18) = 37+9+0 = 46 \\
&(N \geq 37)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+52) &= B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+49)) \\
&= B_{\bar{N}}(2N+52-46)+B_{\bar{N}}(2N+52-(2N+14))+B_{\bar{N}}(2N+52-(N+25)) \\
&= B_{\bar{N}}(2N+6)+B_{\bar{N}}(38)+B_{\bar{N}}(N+27) = (2N+8)+38+18 = 2N+64 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+53) &= B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+50)) \\
&= B_{\bar{N}}(2N+53-(2N+64))+B_{\bar{N}}(2N+53-46)+B_{\bar{N}}(2N+53-(2N+14)) \\
&= B_{\bar{N}}(-11)+B_{\bar{N}}(2N+7)+B_{\bar{N}}(39) = 0+(N+1)+39 = N+40 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+54) &= B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+51)) \\
&= B_{\bar{N}}(2N+54-(N+40))+B_{\bar{N}}(2N+54-(2N+64))+B_{\bar{N}}(2N+54-46) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}(-10)+B_{\bar{N}}(2N+8) = (N+10)+0+(2N+2) = 3N+12 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+55) &= B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+52)) \\
&= B_{\bar{N}}(2N+55-(3N+12))+B_{\bar{N}}(2N+55-(N+40))+B_{\bar{N}}(2N+55-(2N+64)) \\
&= B_{\bar{N}}(-N+43)+B_{\bar{N}}(N+15)+B_{\bar{N}}(-9) = 0+(N+11)+0 = N+11 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+56) &= B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+53)) \\
&= B_{\bar{N}}(2N+56-(N+11))+B_{\bar{N}}(2N+56-(3N+12))+B_{\bar{N}}(2N+56-(N+40)) \\
&= B_{\bar{N}}(N+45)+B_{\bar{N}}(-N+44)+B_{\bar{N}}(N+16) = (N+40)+0+17 = N+57 \\
&(N \geq 44)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+57) &= B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+54)) \\
&= B_{\bar{N}}(2N+57-(N+57))+B_{\bar{N}}(2N+57-(N+11))+B_{\bar{N}}(2N+57-(3N+12)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(N+46)+B_{\bar{N}}(-N+45) = N+(N+47)+0 = 2N+47 \\
&(N \geq 45)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+58) &= B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+55)) \\
&= B_{\bar{N}}(2N+58-(2N+47))+B_{\bar{N}}(2N+58-(N+57))+B_{\bar{N}}(2N+58-(N+11)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N+1)+B_{\bar{N}}(N+47) = 11+6+16 = 33 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+59) &= B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+56)) \\
&= B_{\bar{N}}(2N+59-33)+B_{\bar{N}}(2N+59-(2N+47))+B_{\bar{N}}(2N+59-(N+57)) \\
&= B_{\bar{N}}(2N+26)+B_{\bar{N}}(12)+B_{\bar{N}}(N+2) = (N+28)+12+(N+1) = 2N+41 \\
&(N \geq 12)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+60) &= B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+57)) \\
&= B_{\bar{N}}(2N+60-(2N+41))+B_{\bar{N}}(2N+60-33)+B_{\bar{N}}(2N+60-(2N+47)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(2N+27)+B_{\bar{N}}(13) = 19+(2N+13)+13 = 2N+45 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+61) &= B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+58)) \\
&= B_{\bar{N}}(2N+61-(2N+45))+B_{\bar{N}}(2N+61-(2N+41))+B_{\bar{N}}(2N+61-33) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(20)+B_{\bar{N}}(2N+28) = 16+20+(N+24) = N+60 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+62) &= B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+59)) \\
&= B_{\bar{N}}(2N+62-(N+60))+B_{\bar{N}}(2N+62-(2N+45))+B_{\bar{N}}(2N+62-(2N+41)) \\
&= B_{\bar{N}}(N+2)+B_{\bar{N}}(17)+B_{\bar{N}}(21) = (N+1)+17+21 = N+39 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+63) &= B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+60)) \\
&= B_{\bar{N}}(2N+63-(N+39))+B_{\bar{N}}(2N+63-(N+60))+B_{\bar{N}}(2N+63-(2N+45)) \\
&= B_{\bar{N}}(N+24)+B_{\bar{N}}(N+3)+B_{\bar{N}}(18) = (2N+11)+(N+2)+18 = 3N+31 \\
&(N \geq 18)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+64) &= B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+61)) \\
&= B_{\bar{N}}(2N+64-(3N+31))+B_{\bar{N}}(2N+64-(N+39))+B_{\bar{N}}(2N+64-(N+60)) \\
&= B_{\bar{N}}(-N+33)+B_{\bar{N}}(N+25)+B_{\bar{N}}(N+4) = 0+(2N+5)+(N+3) = 3N+8 \\
&(N \geq 33)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+65) &= B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+62)) \\
&= B_{\bar{N}}(2N+65-(3N+8))+B_{\bar{N}}(2N+65-(3N+31))+B_{\bar{N}}(2N+65-(N+39)) \\
&= B_{\bar{N}}(-N+57)+B_{\bar{N}}(-N+34)+B_{\bar{N}}(N+26)=0+0+9=9 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+66) &= B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+63)) \\
&= B_{\bar{N}}(2N+66-9)+B_{\bar{N}}(2N+66-(3N+8))+B_{\bar{N}}(2N+66-(3N+31)) \\
&= B_{\bar{N}}(2N+57)+B_{\bar{N}}(-N+58)+B_{\bar{N}}(-N+35)=(2N+47)+0+0=2N+47 \\
&(N \geq 58)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+67) &= B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+64)) \\
&= B_{\bar{N}}(2N+67-(2N+47))+B_{\bar{N}}(2N+67-9)+B_{\bar{N}}(2N+67-(3N+8)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(2N+58)+B_{\bar{N}}(-N+59)=20+33+0=53 \\
&(N \geq 59)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+68) &= B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+65)) \\
&= B_{\bar{N}}(2N+68-53)+B_{\bar{N}}(2N+68-(2N+47))+B_{\bar{N}}(2N+68-9) \\
&= B_{\bar{N}}(2N+15)+B_{\bar{N}}(21)+B_{\bar{N}}(2N+59)=(2N+4)+21+(2N+41)=4N+66 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+69) &= B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+66)) \\
&= B_{\bar{N}}(2N+69-(4N+66))+B_{\bar{N}}(2N+69-53)+B_{\bar{N}}(2N+69-(2N+47)) \\
&= B_{\bar{N}}(-2N+3)+B_{\bar{N}}(2N+16)+B_{\bar{N}}(22)=0+(2N+8)+22=2N+30 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+70) &= B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+67)) \\
&= B_{\bar{N}}(2N+70-(2N+30))+B_{\bar{N}}(2N+70-(4N+66))+B_{\bar{N}}(2N+70-53) \\
&= B_{\bar{N}}(40)+B_{\bar{N}}(-2N+4)+B_{\bar{N}}(2N+17) = 40+0+(N+20) = N+60 \\
&(N \geq 40)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+71) &= B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+68)) \\
&= B_{\bar{N}}(2N+71-(N+60))+B_{\bar{N}}(2N+71-(2N+30))+B_{\bar{N}}(2N+71-(4N+66)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(41)+B_{\bar{N}}(-2N+5) = (N+8)+41+0 = N+49 \\
&(N \geq 41)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+72) &= B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+69)) \\
&= B_{\bar{N}}(2N+72-(N+49))+B_{\bar{N}}(2N+72-(N+60))+B_{\bar{N}}(2N+72-(2N+30)) \\
&= B_{\bar{N}}(N+23)+B_{\bar{N}}(N+12)+B_{\bar{N}}(42) = 21+(N+9)+42 = N+72 \\
&(N \geq 42)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+73) &= B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+70)) \\
&= B_{\bar{N}}(2N+73-(N+72))+B_{\bar{N}}(2N+73-(N+49))+B_{\bar{N}}(2N+73-(N+60)) \\
&= B_{\bar{N}}(N+1)+B_{\bar{N}}(N+24)+B_{\bar{N}}(N+13) = 6+(2N+11)+15 = 2N+32 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+74) &= B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+71)) \\
&= B_{\bar{N}}(2N+74-(2N+32))+B_{\bar{N}}(2N+74-(N+72))+B_{\bar{N}}(2N+74-(N+49)) \\
&= B_{\bar{N}}(42)+B_{\bar{N}}(N+2)+B_{\bar{N}}(N+25) = 42+(N+1)+(2N+5) = 3N+48 \\
&(N \geq 42)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+75) &= B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+72)) \\
&= B_{\bar{N}}(2N+75-(3N+48))+B_{\bar{N}}(2N+75-(2N+32))+B_{\bar{N}}(2N+75-(N+72)) \\
&= B_{\bar{N}}(-N+27)+B_{\bar{N}}(43)+B_{\bar{N}}(N+3) = 0+43+(N+2) = N+45 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+76) &= B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+73)) \\
&= B_{\bar{N}}(2N+76-(N+45))+B_{\bar{N}}(2N+76-(3N+48))+B_{\bar{N}}(2N+76-(2N+32)) \\
&= B_{\bar{N}}(N+31)+B_{\bar{N}}(-N+28)+B_{\bar{N}}(44) = 22+0+44 = 66 \\
&(N \geq 44)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+77) &= B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+74)) \\
&= B_{\bar{N}}(2N+77-66)+B_{\bar{N}}(2N+77-(N+45))+B_{\bar{N}}(2N+77-(3N+48)) \\
&= B_{\bar{N}}(2N+11)+B_{\bar{N}}(N+32)+B_{\bar{N}}(-N+29) = (2N+1)+(N+30)+0 = 3N+31 \\
&(N \geq 29)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+78) &= B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+75)) \\
&= B_{\bar{N}}(2N+78-(3N+31))+B_{\bar{N}}(2N+78-66)+B_{\bar{N}}(2N+78-(N+45)) \\
&= B_{\bar{N}}(-N+47)+B_{\bar{N}}(2N+12)+B_{\bar{N}}(N+33) = 0+(2N+5)+(N+35) = 3N+40 \\
&(N \geq 47)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+79) &= B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+76)) \\
&= B_{\bar{N}}(2N+79-(3N+40))+B_{\bar{N}}(2N+79-(3N+31))+B_{\bar{N}}(2N+79-66) \\
&= B_{\bar{N}}(-N+39)+B_{\bar{N}}(-N+48)+B_{\bar{N}}(2N+13) = 0+0+(N+17) = N+17 \\
&(N \geq 48)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+80) &= B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+77)) \\
&= B_{\bar{N}}(2N+80-(N+17))+B_{\bar{N}}(2N+80-(3N+40))+B_{\bar{N}}(2N+80-(3N+31)) \\
&= B_{\bar{N}}(N+63)+B_{\bar{N}}(-N+40)+B_{\bar{N}}(-N+49)=(2N+14)+0+0=2N+14 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+81) &= B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+78)) \\
&= B_{\bar{N}}(2N+81-(2N+14))+B_{\bar{N}}(2N+81-(N+17))+B_{\bar{N}}(2N+81-(3N+40)) \\
&= B_{\bar{N}}(67)+B_{\bar{N}}(N+64)+B_{\bar{N}}(-N+41)=67+(N+4)+0=N+71 \\
&(N \geq 67)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+82) &= B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+79)) \\
&= B_{\bar{N}}(2N+82-(N+71))+B_{\bar{N}}(2N+82-(2N+14))+B_{\bar{N}}(2N+82-(N+17)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(68)+B_{\bar{N}}(N+65)=(N+8)+68+61=N+137 \\
&(N \geq 68)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+83) &= B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+82))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+80)) \\
&= B_{\bar{N}}(2N+83-(N+137))+B_{\bar{N}}(2N+83-(N+71))+B_{\bar{N}}(2N+83-(2N+14)) \\
&= B_{\bar{N}}(N-54)+B_{\bar{N}}(N+12)+B_{\bar{N}}(69)=(N-54)+(N+9)+69=2N+24 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+84) &= B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+83))+B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+82))+B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+81)) \\
&= B_{\bar{N}}(2N+84-(2N+24))+B_{\bar{N}}(2N+84-(N+137))+B_{\bar{N}}(2N+84-(N+71)) \\
&= B_{\bar{N}}(60)+B_{\bar{N}}(N-53)+B_{\bar{N}}(N+13)=60+(N-53)+15=N+22 \\
&(N \geq 60)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+85) &= B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+84))+B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+83))+B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+82)) \\
&= B_{\bar{N}}(2N+85-(N+22))+B_{\bar{N}}(2N+85-(2N+24))+B_{\bar{N}}(2N+85-(N+137)) \\
&= B_{\bar{N}}(N+63)+B_{\bar{N}}(61)+B_{\bar{N}}(N-52) = (2N+14)+61+(N-52) = 3N+23 \\
&(N \geq 61)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+86) &= B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+85))+B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+84))+B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+83)) \\
&= B_{\bar{N}}(2N+86-(3N+23))+B_{\bar{N}}(2N+86-(N+22))+B_{\bar{N}}(2N+86-(2N+24)) \\
&= B_{\bar{N}}(-N+63)+B_{\bar{N}}(N+64)+B_{\bar{N}}(62) = 0+(N+4)+62 = N+66 \\
&(N \geq 63)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+87) &= B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+86))+B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+85))+B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+84)) \\
&= B_{\bar{N}}(2N+87-(N+66))+B_{\bar{N}}(2N+87-(3N+23))+B_{\bar{N}}(2N+87-(N+22)) \\
&= B_{\bar{N}}(N+21)+B_{\bar{N}}(-N+64)+B_{\bar{N}}(N+65) = (N+16)+0+61 = N+77 \\
&(N \geq 64)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+88) &= B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+86))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+85)) \\
&= B_{\bar{N}}(2N+88-(N+77))+B_{\bar{N}}(2N+88-(N+66))+B_{\bar{N}}(2N+88-(3N+23)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(N+22)+B_{\bar{N}}(-N+65) = (N+8)+22+0 = N+30 \\
&(N \geq 65)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+89) &= B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+86)) \\
&= B_{\bar{N}}(2N+89-(N+30))+B_{\bar{N}}(2N+89-(N+77))+B_{\bar{N}}(2N+89-(N+66)) \\
&= B_{\bar{N}}(N+59)+B_{\bar{N}}(N+12)+B_{\bar{N}}(N+23) = 25+(N+9)+21 = N+55 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+90) &= B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+87)) \\
&= B_{\bar{N}}(2N+90-(N+55))+B_{\bar{N}}(2N+90-(N+30))+B_{\bar{N}}(2N+90-(N+77)) \\
&= B_{\bar{N}}(N+35)+B_{\bar{N}}(N+60)+B_{\bar{N}}(N+13) = 27+38+15 = 80 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+91) &= B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+88)) \\
&= B_{\bar{N}}(2N+91-80)+B_{\bar{N}}(2N+91-(N+55))+B_{\bar{N}}(2N+91-(N+30)) \\
&= B_{\bar{N}}(2N+11)+B_{\bar{N}}(N+36)+B_{\bar{N}}(N+61) = (2N+1)+36+58 = 2N+95 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+92) &= B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+89)) \\
&= B_{\bar{N}}(2N+92-(2N+95))+B_{\bar{N}}(2N+92-80)+B_{\bar{N}}(2N+92-(N+55)) \\
&= B_{\bar{N}}(-3)+B_{\bar{N}}(2N+12)+B_{\bar{N}}(N+37) = 0+(2N+5)+(N+37) = 3N+42 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+93) &= B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+90)) \\
&= B_{\bar{N}}(2N+93-(3N+42))+B_{\bar{N}}(2N+93-(2N+95))+B_{\bar{N}}(2N+93-80) \\
&= B_{\bar{N}}(-N+51)+B_{\bar{N}}(-2)+B_{\bar{N}}(2N+13) = 0+0+(N+17) = N+17 \\
&(N \geq 51)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+94) &= B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+91)) \\
&= B_{\bar{N}}(2N+94-(N+17))+B_{\bar{N}}(2N+94-(3N+42))+B_{\bar{N}}(2N+94-(2N+95)) \\
&= B_{\bar{N}}(N+77)+B_{\bar{N}}(-N+52)+B_{\bar{N}}(-1) = 79+0+0 = 79 \\
&(N \geq 52)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+95) &= B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+92)) \\
&= B_{\bar{N}}(2N+95-79)+B_{\bar{N}}(2N+95-(N+17))+B_{\bar{N}}(2N+95-(3N+42)) \\
&= B_{\bar{N}}(2N+16)+B_{\bar{N}}(N+78)+B_{\bar{N}}(-N+53) = (2N+8)+(N+79)+0 = 3N+87 \\
&(N \geq 53)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+96) &= B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+93)) \\
&= B_{\bar{N}}(2N+96-(3N+87))+B_{\bar{N}}(2N+96-79)+B_{\bar{N}}(2N+96-(N+17)) \\
&= B_{\bar{N}}(-N+9)+B_{\bar{N}}(2N+17)+B_{\bar{N}}(N+79) = 0+(N+20)+(N+81) = 2N+101 \\
&(N \geq 9)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+97) &= B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+94)) \\
&= B_{\bar{N}}(2N+97-(2N+101))+B_{\bar{N}}(2N+97-(3N+87))+B_{\bar{N}}(2N+97-79) \\
&= B_{\bar{N}}(-4)+B_{\bar{N}}(-N+10)+B_{\bar{N}}(2N+18) = 0+0+(N+22) = N+22 \\
&(N \geq 10)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+98) &= B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+95)) \\
&= B_{\bar{N}}(2N+98-(N+22))+B_{\bar{N}}(2N+98-(2N+101))+B_{\bar{N}}(2N+98-(3N+87)) \\
&= B_{\bar{N}}(N+76)+B_{\bar{N}}(-3)+B_{\bar{N}}(-N+11) = (N-2)+0+0 = N-2 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+99) &= B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+96)) \\
&= B_{\bar{N}}(2N+99-(N-2))+B_{\bar{N}}(2N+99-(N+22))+B_{\bar{N}}(2N+99-(2N+101)) \\
&= B_{\bar{N}}(N+101)+B_{\bar{N}}(N+77)+B_{\bar{N}}(-2) = 7+79+0 = 86 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+100) &= B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+97)) \\
&= B_{\bar{N}}(2N+100-86)+B_{\bar{N}}(2N+100-(N-2))+B_{\bar{N}}(2N+100-(N+22)) \\
&= B_{\bar{N}}(2N+14)+B_{\bar{N}}(N+102)+B_{\bar{N}}(N+78) = (N+19)+(2N+73)+(N+79) = 4N+171 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+101) &= B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+98)) \\
&= B_{\bar{N}}(2N+101-(4N+171))+B_{\bar{N}}(2N+101-86)+B_{\bar{N}}(2N+101-(N-2)) \\
&= B_{\bar{N}}(-2N-70)+B_{\bar{N}}(2N+15)+B_{\bar{N}}(N+103) = 0+(2N+4)+(2N+7) = 4N+11 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+102) &= B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+99)) \\
&= B_{\bar{N}}(2N+102-(4N+11))+B_{\bar{N}}(2N+102-(4N+171))+B_{\bar{N}}(2N+102-86) \\
&= B_{\bar{N}}(-2N+91)+B_{\bar{N}}(-2N-69)+B_{\bar{N}}(2N+16) = 0+0+(2N+8) = 2N+8 \\
&(N \geq 46)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+103) &= B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+100)) \\
&= B_{\bar{N}}(2N+103-(2N+8))+B_{\bar{N}}(2N+103-(4N+11))+B_{\bar{N}}(2N+103-(4N+171)) \\
&= B_{\bar{N}}(95)+B_{\bar{N}}(-2N+92)+B_{\bar{N}}(-2N-68) = 95+0+0 = 95 \\
&(N \geq 95)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+104) &= B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+101)) \\
&= B_{\bar{N}}(2N+104-95)+B_{\bar{N}}(2N+104-(2N+8))+B_{\bar{N}}(2N+104-(4N+11)) \\
&= B_{\bar{N}}(2N+9)+B_{\bar{N}}(96)+B_{\bar{N}}(-2N+93) = (N+14)+96+0 = N+110 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+105) &= B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+102)) \\
&= B_{\bar{N}}(2N+105-(N+110))+B_{\bar{N}}(2N+105-95)+B_{\bar{N}}(2N+105-(2N+8)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(2N+10)+B_{\bar{N}}(97) = (N-5)+(N+16)+97 = 2N+108 \\
&(N \geq 97)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+106) &= B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+103)) \\
&= B_{\bar{N}}(2N+106-(2N+108))+B_{\bar{N}}(2N+106-(N+110))+B_{\bar{N}}(2N+106-95) \\
&= B_{\bar{N}}(-2)+B_{\bar{N}}(N-4)+B_{\bar{N}}(2N+11) = 0+(N-4)+(2N+1) = 3N-3 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+107) &= B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+104)) \\
&= B_{\bar{N}}(2N+107-(3N-3))+B_{\bar{N}}(2N+107-(2N+108))+B_{\bar{N}}(2N+107-(N+110)) \\
&= B_{\bar{N}}(-N+110)+B_{\bar{N}}(-1)+B_{\bar{N}}(N-3) = 0+0+(N-3) = N-3 \\
&(N \geq 110)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+108) &= B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+105)) \\
&= B_{\bar{N}}(2N+108-(N-3))+B_{\bar{N}}(2N+108-(3N-3))+B_{\bar{N}}(2N+108-(2N+108)) \\
&= B_{\bar{N}}(N+111)+B_{\bar{N}}(-N+111)+B_{\bar{N}}(0) = (N-2)+0+0 = N-2 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+109) &= B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+106)) \\
&= B_{\bar{N}}(2N+109-(N-2))+B_{\bar{N}}(2N+109-(N-3))+B_{\bar{N}}(2N+109-(3N-3)) \\
&= B_{\bar{N}}(N+111)+B_{\bar{N}}(N+112)+B_{\bar{N}}(-N+112) = (N-2)+114+0 = N+112 \\
&(N \geq 112)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+110) &= B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+107)) \\
&= B_{\bar{N}}(2N+110-(N+112))+B_{\bar{N}}(2N+110-(N-2))+B_{\bar{N}}(2N+110-(N-3)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N+112)+B_{\bar{N}}(N+113) = (N-2)+114+(N+114) = 2N+226 \\
&(N \geq 3)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+111) &= B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+108)) \\
&= B_{\bar{N}}(2N+111-(2N+226))+B_{\bar{N}}(2N+111-(N+112))+B_{\bar{N}}(2N+111-(N-2)) \\
&= B_{\bar{N}}(-115)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N+113) = 0+(N-1)+(N+114) = 2N+113 \\
&(N \geq 2)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+112) &= B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+109)) \\
&= B_{\bar{N}}(2N+112-(2N+113))+B_{\bar{N}}(2N+112-(2N+226))+B_{\bar{N}}(2N+112-(N+112)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(-114)+B_{\bar{N}}(N) = 0+0+N = N \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+113) &= B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+110)) \\
&= B_{\bar{N}}(2N+113-N)+B_{\bar{N}}(2N+113-(2N+113))+B_{\bar{N}}(2N+113-(2N+226)) \\
&= B_{\bar{N}}(N+113)+B_{\bar{N}}(0)+B_{\bar{N}}(-113) = (N+114)+0+0 = N+114 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+114) &= B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+111)) \\
&= B_{\bar{N}}(2N+114-(N+114))+B_{\bar{N}}(2N+114-N)+B_{\bar{N}}(2N+114-(2N+113)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(N+114)+B_{\bar{N}}(1) = N+(N+116)+1 = 2N+117 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+115) &= B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+112)) \\
&= B_{\bar{N}}(2N+115-(2N+117))+B_{\bar{N}}(2N+115-(N+114))+B_{\bar{N}}(2N+115-N) \\
&= B_{\bar{N}}(-2)+B_{\bar{N}}(N+1)+B_{\bar{N}}(N+115)=0+6+7=13 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+116) &= B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+113)) \\
&= B_{\bar{N}}(2N+116-13)+B_{\bar{N}}(2N+116-(2N+117))+B_{\bar{N}}(2N+116-(N+114)) \\
&= B_{\bar{N}}(2N+103)+B_{\bar{N}}(-1)+B_{\bar{N}}(N+2)=95+0+(N+1)=N+96 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+117) &= B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+114)) \\
&= B_{\bar{N}}(2N+117-(N+96))+B_{\bar{N}}(2N+117-13)+B_{\bar{N}}(2N+117-(2N+117)) \\
&= B_{\bar{N}}(N+21)+B_{\bar{N}}(2N+104)+B_{\bar{N}}(0)=(N+16)+(N+110)+0=2N+126 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+118) &= B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+115)) \\
&= B_{\bar{N}}(2N+118-(2N+126))+B_{\bar{N}}(2N+118-(N+96))+B_{\bar{N}}(2N+118-13) \\
&= B_{\bar{N}}(-8)+B_{\bar{N}}(N+22)+B_{\bar{N}}(2N+105)=0+22+(2N+108)=2N+130 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+119) &= B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+116)) \\
&= B_{\bar{N}}(2N+119-(2N+130))+B_{\bar{N}}(2N+119-(2N+126))+B_{\bar{N}}(2N+119-(N+96)) \\
&= B_{\bar{N}}(-11)+B_{\bar{N}}(-7)+B_{\bar{N}}(N+23)=0+0+21=21 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+120) &= B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+119))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+117)) \\
&= B_{\bar{N}}(2N+120-21)+B_{\bar{N}}(2N+120-(2N+130))+B_{\bar{N}}(2N+120-(2N+126)) \\
&= B_{\bar{N}}(2N+99)+B_{\bar{N}}(-10)+B_{\bar{N}}(-6) = 86+0+0 = 86 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+121) &= B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+120))+B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+119))+B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+118)) \\
&= B_{\bar{N}}(2N+121-86)+B_{\bar{N}}(2N+121-21)+B_{\bar{N}}(2N+121-(2N+130)) \\
&= B_{\bar{N}}(2N+35)+B_{\bar{N}}(2N+100)+B_{\bar{N}}(-9) = (N+39)+(4N+171)+0 = 5N+210 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+122) &= B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+121))+B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+120))+B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+119)) \\
&= B_{\bar{N}}(2N+122-(5N+210))+B_{\bar{N}}(2N+122-86)+B_{\bar{N}}(2N+122-21) \\
&= B_{\bar{N}}(-3N-88)+B_{\bar{N}}(2N+36)+B_{\bar{N}}(2N+101) = 0+(4N+15)+(4N+11) = 8N+26 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+123) &= B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+122))+B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+121))+B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+120)) \\
&= B_{\bar{N}}(2N+123-(8N+26))+B_{\bar{N}}(2N+123-(5N+210))+B_{\bar{N}}(2N+123-86) \\
&= B_{\bar{N}}(-6N+97)+B_{\bar{N}}(-3N-87)+B_{\bar{N}}(2N+37) = 0+0+(2N+7) = 2N+7 \\
&(N \geq 17)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+124) &= B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+123))+B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+122))+B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+121)) \\
&= B_{\bar{N}}(2N+124-(2N+7))+B_{\bar{N}}(2N+124-(8N+26))+B_{\bar{N}}(2N+124-(5N+210)) \\
&= B_{\bar{N}}(117)+B_{\bar{N}}(-6N+98)+B_{\bar{N}}(-3N-86) = 117+0+0 = 117 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+125) &= B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+124)) + B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+123)) + B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+122)) \\
&= B_{\bar{N}}(2N+125-117) + B_{\bar{N}}(2N+125-(2N+7)) + B_{\bar{N}}(2N+125-(8N+26)) \\
&= B_{\bar{N}}(2N+8) + B_{\bar{N}}(118) + B_{\bar{N}}(-6N+99) = (2N+2)+118+0 = 2N+120 \\
&(N \geq 118)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+126) &= B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+125)) + B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+124)) + B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+123)) \\
&= B_{\bar{N}}(2N+126-(2N+120)) + B_{\bar{N}}(2N+126-117) + B_{\bar{N}}(2N+126-(2N+7)) \\
&= B_{\bar{N}}(6) + B_{\bar{N}}(2N+9) + B_{\bar{N}}(119) = 6+(N+14)+119 = N+139 \\
&(N \geq 119)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+127) &= B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+126)) + B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+125)) + B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+124)) \\
&= B_{\bar{N}}(2N+127-(N+139)) + B_{\bar{N}}(2N+127-(2N+120)) + B_{\bar{N}}(2N+127-117) \\
&= B_{\bar{N}}(N-12) + B_{\bar{N}}(7) + B_{\bar{N}}(2N+10) = (N-12)+7+(N+16) = 2N+11 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+128) &= B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+127)) + B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+126)) + B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+125)) \\
&= B_{\bar{N}}(2N+128-(2N+11)) + B_{\bar{N}}(2N+128-(N+139)) + B_{\bar{N}}(2N+128-(2N+120)) \\
&= B_{\bar{N}}(117) + B_{\bar{N}}(N-11) + B_{\bar{N}}(8) = 117+(N-11)+8 = N+114 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+129) &= B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+128)) + B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+127)) + B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+126)) \\
&= B_{\bar{N}}(2N+129-(N+114)) + B_{\bar{N}}(2N+129-(2N+11)) + B_{\bar{N}}(2N+129-(N+139)) \\
&= B_{\bar{N}}(N+15) + B_{\bar{N}}(118) + B_{\bar{N}}(N-10) = (N+11)+118+(N-10) = 2N+119 \\
&(N \geq 118)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+130) &= B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+128))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+127)) \\
&= B_{\bar{N}}(2N+130-(2N+119))+B_{\bar{N}}(2N+130-(N+114))+B_{\bar{N}}(2N+130-(2N+11)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N+16)+B_{\bar{N}}(119) = 11+17+119 = 147 \\
&(N \geq 119)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+131) &= B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+128)) \\
&= B_{\bar{N}}(2N+131-147)+B_{\bar{N}}(2N+131-(2N+119))+B_{\bar{N}}(2N+131-(N+114)) \\
&= B_{\bar{N}}(2N-16)+B_{\bar{N}}(12)+B_{\bar{N}}(N+17) = (N-2)+12+(N+13) = 2N+23 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+132) &= B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+129)) \\
&= B_{\bar{N}}(2N+132-(2N+23))+B_{\bar{N}}(2N+132-147)+B_{\bar{N}}(2N+132-(2N+119)) \\
&= B_{\bar{N}}(109)+B_{\bar{N}}(2N-15)+B_{\bar{N}}(13) = 109+(N-13)+13 = N+109 \\
&(N \geq 109)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+133) &= B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+130)) \\
&= B_{\bar{N}}(2N+133-(N+109))+B_{\bar{N}}(2N+133-(2N+23))+B_{\bar{N}}(2N+133-147) \\
&= B_{\bar{N}}(N+24)+B_{\bar{N}}(110)+B_{\bar{N}}(2N-14) = (2N+11)+110+(2N-13) = 4N+108 \\
&(N \geq 110)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+134) &= B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+131)) \\
&= B_{\bar{N}}(2N+134-(4N+108))+B_{\bar{N}}(2N+134-(N+109))+B_{\bar{N}}(2N+134-(2N+23)) \\
&= B_{\bar{N}}(-2N+26)+B_{\bar{N}}(N+25)+B_{\bar{N}}(111) = 0+(2N+5)+111 = 2N+116 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+135) &= B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+132)) \\
&= B_{\bar{N}}(2N+135-(2N+116))+B_{\bar{N}}(2N+135-(4N+108))+B_{\bar{N}}(2N+135-(N+109)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(-2N+27)+B_{\bar{N}}(N+26) = 19+0+9 = 28 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+136) &= B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+133)) \\
&= B_{\bar{N}}(2N+136-28)+B_{\bar{N}}(2N+136-(2N+116))+B_{\bar{N}}(2N+136-(4N+108)) \\
&= B_{\bar{N}}(2N+108)+B_{\bar{N}}(20)+B_{\bar{N}}(-2N+28) = (N-2)+20+0 = N+18 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+137) &= B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+134)) \\
&= B_{\bar{N}}(2N+137-(N+18))+B_{\bar{N}}(2N+137-28)+B_{\bar{N}}(2N+137-(2N+116)) \\
&= B_{\bar{N}}(N+119)+B_{\bar{N}}(2N+109)+B_{\bar{N}}(21) = 121+(N+112)+21 = N+254 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+138) &= B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+135)) \\
&= B_{\bar{N}}(2N+138-(N+254))+B_{\bar{N}}(2N+138-(N+18))+B_{\bar{N}}(2N+138-28) \\
&= B_{\bar{N}}(N-116)+B_{\bar{N}}(N+120)+B_{\bar{N}}(2N+110) = (N-116)+(N+121)+(2N+226) = 4N+231 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+139) &= B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+136)) \\
&= B_{\bar{N}}(2N+139-(4N+231))+B_{\bar{N}}(2N+139-(N+254))+B_{\bar{N}}(2N+139-(N+18)) \\
&= B_{\bar{N}}(-2N-92)+B_{\bar{N}}(N-115)+B_{\bar{N}}(N+121) = 0+(N-115)+(N+123) = 2N+8 \\
&(N \geq 116)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+140) &= B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+137)) \\
&= B_{\bar{N}}(2N+140-(2N+8))+B_{\bar{N}}(2N+140-(4N+231))+B_{\bar{N}}(2N+140-(N+254)) \\
&= B_{\bar{N}}(132)+B_{\bar{N}}(-2N-91)+B_{\bar{N}}(N-114) = 132+0+(N-114) = N+18 \\
&(N \geq 132)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+141) &= B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+138)) \\
&= B_{\bar{N}}(2N+141-(N+18))+B_{\bar{N}}(2N+141-(2N+8))+B_{\bar{N}}(2N+141-(4N+231)) \\
&= B_{\bar{N}}(N+123)+B_{\bar{N}}(133)+B_{\bar{N}}(-2N-90) = (2N+79)+133+0 = 2N+212 \\
&(N \geq 133)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+142) &= B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+139)) \\
&= B_{\bar{N}}(2N+142-(2N+212))+B_{\bar{N}}(2N+142-(N+18))+B_{\bar{N}}(2N+142-(2N+8)) \\
&= B_{\bar{N}}(-70)+B_{\bar{N}}(N+124)+B_{\bar{N}}(134) = 0+(2N+10)+134 = 2N+144 \\
&(N \geq 134)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+143) &= B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+140)) \\
&= B_{\bar{N}}(2N+143-(2N+144))+B_{\bar{N}}(2N+143-(2N+212))+B_{\bar{N}}(2N+143-(N+18)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(-69)+B_{\bar{N}}(N+125) = 0+0+(N-2) = N-2 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+144) &= B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+141)) \\
&= B_{\bar{N}}(2N+144-(N-2))+B_{\bar{N}}(2N+144-(2N+144))+B_{\bar{N}}(2N+144-(2N+212)) \\
&= B_{\bar{N}}(N+146)+B_{\bar{N}}(0)+B_{\bar{N}}(-68) = (N-2)+0+0 = N-2 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+145) &= B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+142)) \\
&= B_{\bar{N}}(2N+145-(N-2))+B_{\bar{N}}(2N+145-(N-2))+B_{\bar{N}}(2N+145-(2N+144)) \\
&= B_{\bar{N}}(N+147)+B_{\bar{N}}(N+147)+B_{\bar{N}}(1)=149+149+1=299 \\
&(N\geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+146) &= B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+143)) \\
&= B_{\bar{N}}(2N+146-299)+B_{\bar{N}}(2N+146-(N-2))+B_{\bar{N}}(2N+146-(N-2)) \\
&= B_{\bar{N}}(2N-153)+B_{\bar{N}}(N+148)+B_{\bar{N}}(N+148)=(2N-151)+(N+149)+(N+149)=4N+147 \\
&(N\geq 220)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+147) &= B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+144)) \\
&= B_{\bar{N}}(2N+147-(4N+147))+B_{\bar{N}}(2N+147-299)+B_{\bar{N}}(2N+147-(N-2)) \\
&= B_{\bar{N}}(-2N)+B_{\bar{N}}(2N-152)+B_{\bar{N}}(N+149)=0+7+(N+151)=N+158 \\
&(N\geq 219)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+148) &= B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+145)) \\
&= B_{\bar{N}}(2N+148-(N+158))+B_{\bar{N}}(2N+148-(4N+147))+B_{\bar{N}}(2N+148-299) \\
&= B_{\bar{N}}(N-10)+B_{\bar{N}}(-2N+1)+B_{\bar{N}}(2N-151)=(N-10)+0+\left(\frac{16N}{7}+\frac{5}{7}\right)=\frac{23N}{7}-\frac{65}{7} \\
&(N\geq 218)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+149) &= B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+146)) \\
&= B_{\bar{N}}\left(2N+149-\left(\frac{23N}{7}-\frac{65}{7}\right)\right)+B_{\bar{N}}(2N+149-(N+158))+B_{\bar{N}}(2N+149-(4N+147)) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}+\frac{1108}{7}\right)+B_{\bar{N}}(N-9)+B_{\bar{N}}(-2N+2)=0+(N-9)+0=N-9 \\
&(N\geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+150) &= B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+147)) \\
&= B_{\bar{N}}(2N+150-(N-9))+B_{\bar{N}}\left(2N+150-\left(\frac{23N}{7}-\frac{65}{7}\right)\right)+B_{\bar{N}}(2N+150-(N+158)) \\
&= B_{\bar{N}}(N+159)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{1115}{7}\right)+B_{\bar{N}}(N-8)=(2N+15)+0+(N-8)=3N+7 \\
&(N \geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+151) &= B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+148)) \\
&= B_{\bar{N}}(2N+151-(3N+7))+B_{\bar{N}}(2N+151-(N-9))+B_{\bar{N}}\left(2N+151-\left(\frac{23N}{7}-\frac{65}{7}\right)\right) \\
&= B_{\bar{N}}(-N+144)+B_{\bar{N}}(N+160)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{1122}{7}\right)=0+(N-2)+0=N-2 \\
&(N \geq 144)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+152) &= B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+149)) \\
&= B_{\bar{N}}(2N+152-(N-2))+B_{\bar{N}}(2N+152-(3N+7))+B_{\bar{N}}(2N+152-(N-9)) \\
&= B_{\bar{N}}(N+154)+B_{\bar{N}}(-N+145)+B_{\bar{N}}(N+161)=156+0+163=319 \\
&(N \geq 145)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+153) &= B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+150)) \\
&= B_{\bar{N}}(2N+153-319)+B_{\bar{N}}(2N+153-(N-2))+B_{\bar{N}}(2N+153-(3N+7)) \\
&= B_{\bar{N}}(2N-166)+B_{\bar{N}}(N+155)+B_{\bar{N}}(-N+146)=7+(N+156)+0=N+163 \\
&(N \geq 233)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+154) &= B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+151)) \\
&= B_{\bar{N}}(2N+154-(N+163))+B_{\bar{N}}(2N+154-319)+B_{\bar{N}}(2N+154-(N-2)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(2N-165)+B_{\bar{N}}(N+156) = (N-9)+\left(\frac{16N}{7}-\frac{23}{7}\right)+(N+158) = \frac{30N}{7}+\frac{1020}{7} \\
&(N \geq 232)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+155) &= B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+152)) \\
&= B_{\bar{N}}\left(2N+155-\left(\frac{30N}{7}+\frac{1020}{7}\right)\right)+B_{\bar{N}}(2N+155-(N+163))+B_{\bar{N}}(2N+155-319) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}+\frac{65}{7}\right)+B_{\bar{N}}(N-8)+B_{\bar{N}}(2N-164) = 0+(N-8)+\left(\frac{15N}{7}-\frac{218}{7}\right) = \frac{22N}{7}-\frac{274}{7} \\
&(N \geq 231)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+156) &= B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+153)) \\
&= B_{\bar{N}}\left(2N+156-\left(\frac{22N}{7}-\frac{274}{7}\right)\right)+B_{\bar{N}}\left(2N+156-\left(\frac{30N}{7}+\frac{1020}{7}\right)\right)+B_{\bar{N}}(2N+156-(N+163)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{1366}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}+\frac{72}{7}\right)+B_{\bar{N}}(N-7) = 0+0+(N-7) = N-7 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+157) &= B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+154)) \\
&= B_{\bar{N}}(2N+157-(N-7))+B_{\bar{N}}\left(2N+157-\left(\frac{22N}{7}-\frac{274}{7}\right)\right)+B_{\bar{N}}\left(2N+157-\left(\frac{30N}{7}+\frac{1020}{7}\right)\right) \\
&= B_{\bar{N}}(N+164)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{1373}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}+\frac{79}{7}\right) = 7+0+0 = 7 \\
&(N \geq 172)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+158) &= B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+155)) \\
&= B_{\bar{N}}(2N+158-7)+B_{\bar{N}}(2N+158-(N-7))+B_{\bar{N}}\left(2N+158-\left(\frac{22N}{7}-\frac{274}{7}\right)\right) \\
&= B_{\bar{N}}(2N+151)+B_{\bar{N}}(N+165)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{1380}{7}\right) = (N-2)+(2N+91)+0 = 3N+89 \\
&(N \geq 173)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+159) &= B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+156)) \\
&= B_{\bar{N}}(2N+159-(3N+89))+B_{\bar{N}}(2N+159-7)+B_{\bar{N}}(2N+159-(N-7)) \\
&= B_{\bar{N}}(-N+70)+B_{\bar{N}}(2N+152)+B_{\bar{N}}(N+166) = 0+319+(2N+16) = 2N+335 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+160) &= B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+159))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+157)) \\
&= B_{\bar{N}}(2N+160-(2N+335))+B_{\bar{N}}(2N+160-(3N+89))+B_{\bar{N}}(2N+160-7) \\
&= B_{\bar{N}}(-175)+B_{\bar{N}}(-N+71)+B_{\bar{N}}(2N+153) = 0+0+(N+163) = N+163 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+161) &= B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+160))+B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+159))+B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+158)) \\
&= B_{\bar{N}}(2N+161-(N+163))+B_{\bar{N}}(2N+161-(2N+335))+B_{\bar{N}}(2N+161-(3N+89)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(-174)+B_{\bar{N}}(-N+72) = (N-2)+0+0 = N-2 \\
&(N \geq 72)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+162) &= B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+161))+B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+160))+B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+159)) \\
&= B_{\bar{N}}(2N+162-(N-2))+B_{\bar{N}}(2N+162-(N+163))+B_{\bar{N}}(2N+162-(2N+335)) \\
&= B_{\bar{N}}(N+164)+B_{\bar{N}}(N-1)+B_{\bar{N}}(-173) = 7+(N-1)+0 = N+6 \\
&(N \geq 2)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+163) &= B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+162))+B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+161))+B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+160)) \\
&= B_{\bar{N}}(2N+163-(N+6))+B_{\bar{N}}(2N+163-(N-2))+B_{\bar{N}}(2N+163-(N+163)) \\
&= B_{\bar{N}}(N+157)+B_{\bar{N}}(N+165)+B_{\bar{N}}(N) = 7+(2N+91)+N = 3N+98 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+164) &= B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+163))+B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+162))+B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+161)) \\
&= B_{\bar{N}}(2N+164-(3N+98))+B_{\bar{N}}(2N+164-(N+6))+B_{\bar{N}}(2N+164-(N-2)) \\
&= B_{\bar{N}}(-N+66)+B_{\bar{N}}(N+158)+B_{\bar{N}}(N+166) = 0+(2N+89)+(2N+16) = 4N+105 \\
&(N \geq 66)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+165) &= B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+164))+B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+163))+B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+162)) \\
&= B_{\bar{N}}(2N+165-(4N+105))+B_{\bar{N}}(2N+165-(3N+98))+B_{\bar{N}}(2N+165-(N+6)) \\
&= B_{\bar{N}}(-2N+60)+B_{\bar{N}}(-N+67)+B_{\bar{N}}(N+159) = 0+0+(2N+15) = 2N+15 \\
&(N \geq 67)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+166) &= B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+165))+B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+164))+B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+163)) \\
&= B_{\bar{N}}(2N+166-(2N+15))+B_{\bar{N}}(2N+166-(4N+105))+B_{\bar{N}}(2N+166-(3N+98)) \\
&= B_{\bar{N}}(151)+B_{\bar{N}}(-2N+61)+B_{\bar{N}}(-N+68) = 151+0+0 = 151 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+167) &= B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+166))+B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+165))+B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+164)) \\
&= B_{\bar{N}}(2N+167-151)+B_{\bar{N}}(2N+167-(2N+15))+B_{\bar{N}}(2N+167-(4N+105)) \\
&= B_{\bar{N}}(2N+16)+B_{\bar{N}}(152)+B_{\bar{N}}(-2N+62) = (2N+8)+152+0 = 2N+160 \\
&(N \geq 152)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+168) &= B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+167)) + B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+166)) + B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+165)) \\
&= B_{\bar{N}}(2N+168-(2N+160)) + B_{\bar{N}}(2N+168-151) + B_{\bar{N}}(2N+168-(2N+15)) \\
&= B_{\bar{N}}(8) + B_{\bar{N}}(2N+17) + B_{\bar{N}}(153) = 8 + (N+20) + 153 = N+181 \\
&(N \geq 153)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+169) &= B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+168)) + B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+167)) + B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+166)) \\
&= B_{\bar{N}}(2N+169-(N+181)) + B_{\bar{N}}(2N+169-(2N+160)) + B_{\bar{N}}(2N+169-151) \\
&= B_{\bar{N}}(N-12) + B_{\bar{N}}(9) + B_{\bar{N}}(2N+18) = (N-12) + 9 + (N+22) = 2N+19 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+170) &= B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+169)) + B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+168)) + B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+167)) \\
&= B_{\bar{N}}(2N+170-(2N+19)) + B_{\bar{N}}(2N+170-(N+181)) + B_{\bar{N}}(2N+170-(2N+160)) \\
&= B_{\bar{N}}(151) + B_{\bar{N}}(N-11) + B_{\bar{N}}(10) = 151 + (N-11) + 10 = N+150 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+171) &= B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+170)) + B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+169)) + B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+168)) \\
&= B_{\bar{N}}(2N+171-(N+150)) + B_{\bar{N}}(2N+171-(2N+19)) + B_{\bar{N}}(2N+171-(N+181)) \\
&= B_{\bar{N}}(N+21) + B_{\bar{N}}(152) + B_{\bar{N}}(N-10) = (N+16) + 152 + (N-10) = 2N+158 \\
&(N \geq 152)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+172) &= B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+171)) + B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+170)) + B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+169)) \\
&= B_{\bar{N}}(2N+172-(2N+158)) + B_{\bar{N}}(2N+172-(N+150)) + B_{\bar{N}}(2N+172-(2N+19)) \\
&= B_{\bar{N}}(14) + B_{\bar{N}}(N+22) + B_{\bar{N}}(153) = 14 + 22 + 153 = 189 \\
&(N \geq 153)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+173) &= B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+171))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+170)) \\
&= B_{\bar{N}}(2N+173-189)+B_{\bar{N}}(2N+173-(2N+158))+B_{\bar{N}}(2N+173-(N+150)) \\
&= B_{\bar{N}}(2N-16)+B_{\bar{N}}(15)+B_{\bar{N}}(N+23) = (N-2)+15+21 = N+34 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+174) &= B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+171)) \\
&= B_{\bar{N}}(2N+174-(N+34))+B_{\bar{N}}(2N+174-189)+B_{\bar{N}}(2N+174-(2N+158)) \\
&= B_{\bar{N}}(N+140)+B_{\bar{N}}(2N-15)+B_{\bar{N}}(16) = 142+(N-13)+16 = N+145 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+175) &= B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+172)) \\
&= B_{\bar{N}}(2N+175-(N+145))+B_{\bar{N}}(2N+175-(N+34))+B_{\bar{N}}(2N+175-189) \\
&= B_{\bar{N}}(N+30)+B_{\bar{N}}(N+141)+B_{\bar{N}}(2N-14) = (N+9)+(N+142)+(2N-13) = 4N+138 \\
&(N \geq 81)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+176) &= B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+173)) \\
&= B_{\bar{N}}(2N+176-(4N+138))+B_{\bar{N}}(2N+176-(N+145))+B_{\bar{N}}(2N+176-(N+34)) \\
&= B_{\bar{N}}(-2N+38)+B_{\bar{N}}(N+31)+B_{\bar{N}}(N+142) = 0+22+(N+144) = N+166 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+177) &= B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+174)) \\
&= B_{\bar{N}}(2N+177-(N+166))+B_{\bar{N}}(2N+177-(4N+138))+B_{\bar{N}}(2N+177-(N+145)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(-2N+39)+B_{\bar{N}}(N+32) = (N+8)+0+(N+30) = 2N+38 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+178) &= B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+175)) \\
&= B_{\bar{N}}(2N+178-(2N+38))+B_{\bar{N}}(2N+178-(N+166))+B_{\bar{N}}(2N+178-(4N+138)) \\
&= B_{\bar{N}}(140)+B_{\bar{N}}(N+12)+B_{\bar{N}}(-2N+40) = 140+(N+9)+0 = N+149 \\
&(N \geq 140)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+179) &= B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+176)) \\
&= B_{\bar{N}}(2N+179-(N+149))+B_{\bar{N}}(2N+179-(2N+38))+B_{\bar{N}}(2N+179-(N+166)) \\
&= B_{\bar{N}}(N+30)+B_{\bar{N}}(141)+B_{\bar{N}}(N+13) = (N+9)+141+15 = N+165 \\
&(N \geq 141)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+180) &= B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+177)) \\
&= B_{\bar{N}}(2N+180-(N+165))+B_{\bar{N}}(2N+180-(N+149))+B_{\bar{N}}(2N+180-(2N+38)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(N+31)+B_{\bar{N}}(142) = (N+11)+22+142 = N+175 \\
&(N \geq 142)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+181) &= B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+178)) \\
&= B_{\bar{N}}(2N+181-(N+175))+B_{\bar{N}}(2N+181-(N+165))+B_{\bar{N}}(2N+181-(N+149)) \\
&= B_{\bar{N}}(N+6)+B_{\bar{N}}(N+16)+B_{\bar{N}}(N+32) = (N+4)+17+(N+30) = 2N+51 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+182) &= B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+179)) \\
&= B_{\bar{N}}(2N+182-(2N+51))+B_{\bar{N}}(2N+182-(N+175))+B_{\bar{N}}(2N+182-(N+165)) \\
&= B_{\bar{N}}(131)+B_{\bar{N}}(N+7)+B_{\bar{N}}(N+17) = 131+(N+5)+(N+13) = 2N+149 \\
&(N \geq 131)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+183) &= B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+182))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+180)) \\
&= B_{\bar{N}}(2N+183-(2N+149))+B_{\bar{N}}(2N+183-(2N+51))+B_{\bar{N}}(2N+183-(N+175)) \\
&= B_{\bar{N}}(34)+B_{\bar{N}}(132)+B_{\bar{N}}(N+8) = 34+132+(N+6) = N+172 \\
&(N \geq 132)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+184) &= B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+183))+B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+182))+B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+181)) \\
&= B_{\bar{N}}(2N+184-(N+172))+B_{\bar{N}}(2N+184-(2N+149))+B_{\bar{N}}(2N+184-(2N+51)) \\
&= B_{\bar{N}}(N+12)+B_{\bar{N}}(35)+B_{\bar{N}}(133) = (N+9)+35+133 = N+177 \\
&(N \geq 133)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+185) &= B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+184))+B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+183))+B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+182)) \\
&= B_{\bar{N}}(2N+185-(N+177))+B_{\bar{N}}(2N+185-(N+172))+B_{\bar{N}}(2N+185-(2N+149)) \\
&= B_{\bar{N}}(N+8)+B_{\bar{N}}(N+13)+B_{\bar{N}}(36) = (N+6)+15+36 = N+57 \\
&(N \geq 36)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+186) &= B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+185))+B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+184))+B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+183)) \\
&= B_{\bar{N}}(2N+186-(N+57))+B_{\bar{N}}(2N+186-(N+177))+B_{\bar{N}}(2N+186-(N+172)) \\
&= B_{\bar{N}}(N+129)+B_{\bar{N}}(N+9)+B_{\bar{N}}(N+14) = 7+12+(N+10) = N+29 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+187) &= B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+186))+B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+185))+B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+184)) \\
&= B_{\bar{N}}(2N+187-(N+29))+B_{\bar{N}}(2N+187-(N+57))+B_{\bar{N}}(2N+187-(N+177)) \\
&= B_{\bar{N}}(N+158)+B_{\bar{N}}(N+130)+B_{\bar{N}}(N+10) = (2N+89)+(2N+81)+(N+7) = 5N+177 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+188) &= B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+186))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+185)) \\
&= B_{\bar{N}}(2N+188-(5N+177))+B_{\bar{N}}(2N+188-(N+29))+B_{\bar{N}}(2N+188-(N+57)) \\
&= B_{\bar{N}}(-3N+11)+B_{\bar{N}}(N+159)+B_{\bar{N}}(N+131)=0+(2N+15)+(2N+11)=4N+26 \\
&(N \geq 4)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+189) &= B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+186)) \\
&= B_{\bar{N}}(2N+189-(4N+26))+B_{\bar{N}}(2N+189-(5N+177))+B_{\bar{N}}(2N+189-(N+29)) \\
&= B_{\bar{N}}(-2N+163)+B_{\bar{N}}(-3N+12)+B_{\bar{N}}(N+160)=0+0+(N-2)=N-2 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+190) &= B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+187)) \\
&= B_{\bar{N}}(2N+190-(N-2))+B_{\bar{N}}(2N+190-(4N+26))+B_{\bar{N}}(2N+190-(5N+177)) \\
&= B_{\bar{N}}(N+192)+B_{\bar{N}}(-2N+164)+B_{\bar{N}}(-3N+13)=7+0+0=7 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+191) &= B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+188)) \\
&= B_{\bar{N}}(2N+191-7)+B_{\bar{N}}(2N+191-(N-2))+B_{\bar{N}}(2N+191-(4N+26)) \\
&= B_{\bar{N}}(2N+184)+B_{\bar{N}}(N+193)+B_{\bar{N}}(-2N+165)=(N+177)+(2N+99)+0=3N+276 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+192) &= B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+189)) \\
&= B_{\bar{N}}(2N+192-(3N+276))+B_{\bar{N}}(2N+192-7)+B_{\bar{N}}(2N+192-(N-2)) \\
&= B_{\bar{N}}(-N-84)+B_{\bar{N}}(2N+185)+B_{\bar{N}}(N+194)=0+(N+57)+(2N+20)=3N+77 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+193) &= B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+190)) \\
&= B_{\bar{N}}(2N+193-(3N+77))+B_{\bar{N}}(2N+193-(3N+276))+B_{\bar{N}}(2N+193-7) \\
&= B_{\bar{N}}(-N+116)+B_{\bar{N}}(-N-83)+B_{\bar{N}}(2N+186) = 0+0+(N+29) = N+29 \\
&(N \geq 116)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+194) &= B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+191)) \\
&= B_{\bar{N}}(2N+194-(N+29))+B_{\bar{N}}(2N+194-(3N+77))+B_{\bar{N}}(2N+194-(3N+276)) \\
&= B_{\bar{N}}(N+165)+B_{\bar{N}}(-N+117)+B_{\bar{N}}(-N-82) = (2N+91)+0+0 = 2N+91 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+195) &= B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+192)) \\
&= B_{\bar{N}}(2N+195-(2N+91))+B_{\bar{N}}(2N+195-(N+29))+B_{\bar{N}}(2N+195-(3N+77)) \\
&= B_{\bar{N}}(104)+B_{\bar{N}}(N+166)+B_{\bar{N}}(-N+118) = 104+(2N+16)+0 = 2N+120 \\
&(N \geq 118)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+196) &= B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+193)) \\
&= B_{\bar{N}}(2N+196-(2N+120))+B_{\bar{N}}(2N+196-(2N+91))+B_{\bar{N}}(2N+196-(N+29)) \\
&= B_{\bar{N}}(76)+B_{\bar{N}}(105)+B_{\bar{N}}(N+167) = 76+105+(N-2) = N+179 \\
&(N \geq 105)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+197) &= B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+196))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+194)) \\
&= B_{\bar{N}}(2N+197-(N+179))+B_{\bar{N}}(2N+197-(2N+120))+B_{\bar{N}}(2N+197-(2N+91)) \\
&= B_{\bar{N}}(N+18)+B_{\bar{N}}(77)+B_{\bar{N}}(106) = 18+77+106 = 201 \\
&(N \geq 106)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+198) &= B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+197)) + B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+196)) + B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+195)) \\
&= B_{\bar{N}}(2N+198-201) + B_{\bar{N}}(2N+198-(N+179)) + B_{\bar{N}}(2N+198-(2N+120)) \\
&= B_{\bar{N}}(2N-3) + B_{\bar{N}}(N+19) + B_{\bar{N}}(78) = \left(\frac{15N}{7} - \frac{57}{7}\right) + (N+13) + 78 = \frac{22N}{7} + \frac{580}{7} \\
&(N \geq 78)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+199) &= B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+198)) + B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+197)) + B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+196)) \\
&= B_{\bar{N}}\left(2N+199-\left(\frac{22N}{7}+\frac{580}{7}\right)\right) + B_{\bar{N}}(2N+199-201) + B_{\bar{N}}(2N+199-(N+179)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{813}{7}\right) + B_{\bar{N}}(2N-2) + B_{\bar{N}}(N+20) = 0 + (N-2) + (N+15) = 2N+13 \\
&(N \geq 102)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+200) &= B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+199)) + B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+198)) + B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+197)) \\
&= B_{\bar{N}}(2N+200-(2N+13)) + B_{\bar{N}}\left(2N+200-\left(\frac{22N}{7}+\frac{580}{7}\right)\right) + B_{\bar{N}}(2N+200-201) \\
&= B_{\bar{N}}(187) + B_{\bar{N}}\left(-\frac{8N}{7}+\frac{820}{7}\right) + B_{\bar{N}}(2N-1) = 187 + 0 + 6 = 193 \\
&(N \geq 187)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+201) &= B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+200)) + B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+199)) + B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+198)) \\
&= B_{\bar{N}}(2N+201-193) + B_{\bar{N}}(2N+201-(2N+13)) + B_{\bar{N}}\left(2N+201-\left(\frac{22N}{7}+\frac{580}{7}\right)\right) \\
&= B_{\bar{N}}(2N+8) + B_{\bar{N}}(188) + B_{\bar{N}}\left(-\frac{8N}{7}+\frac{827}{7}\right) = (2N+2) + 188 + 0 = 2N+190 \\
&(N \geq 188)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+202) &= B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+201))+B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+200))+B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+199)) \\
&= B_{\bar{N}}(2N+202-(2N+190))+B_{\bar{N}}(2N+202-193)+B_{\bar{N}}(2N+202-(2N+13)) \\
&= B_{\bar{N}}(12)+B_{\bar{N}}(2N+9)+B_{\bar{N}}(189) = 12+(N+14)+189 = N+215 \\
&(N \geq 189)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+203) &= B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+201))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+200)) \\
&= B_{\bar{N}}(2N+203-(N+215))+B_{\bar{N}}(2N+203-(2N+190))+B_{\bar{N}}(2N+203-193) \\
&= B_{\bar{N}}(N-12)+B_{\bar{N}}(13)+B_{\bar{N}}(2N+10) = (N-12)+13+(N+16) = 2N+17 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+204) &= B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+201)) \\
&= B_{\bar{N}}(2N+204-(2N+17))+B_{\bar{N}}(2N+204-(N+215))+B_{\bar{N}}(2N+204-(2N+190)) \\
&= B_{\bar{N}}(187)+B_{\bar{N}}(N-11)+B_{\bar{N}}(14) = 187+(N-11)+14 = N+190 \\
&(N \geq 187)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+205) &= B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+202)) \\
&= B_{\bar{N}}(2N+205-(N+190))+B_{\bar{N}}(2N+205-(2N+17))+B_{\bar{N}}(2N+205-(N+215)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(188)+B_{\bar{N}}(N-10) = (N+11)+188+(N-10) = 2N+189 \\
&(N \geq 188)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+206) &= B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+203)) \\
&= B_{\bar{N}}(2N+206-(2N+189))+B_{\bar{N}}(2N+206-(N+190))+B_{\bar{N}}(2N+206-(2N+17)) \\
&= B_{\bar{N}}(17)+B_{\bar{N}}(N+16)+B_{\bar{N}}(189) = 17+17+189 = 223 \\
&(N \geq 189)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+207) &= B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+204)) \\
&= B_{\bar{N}}(2N+207-223)+B_{\bar{N}}(2N+207-(2N+189))+B_{\bar{N}}(2N+207-(N+190)) \\
&= B_{\bar{N}}(2N-16)+B_{\bar{N}}(18)+B_{\bar{N}}(N+17) = (N-2)+18+(N+13) = 2N+29 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+208) &= B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+205)) \\
&= B_{\bar{N}}(2N+208-(2N+29))+B_{\bar{N}}(2N+208-223)+B_{\bar{N}}(2N+208-(2N+189)) \\
&= B_{\bar{N}}(179)+B_{\bar{N}}(2N-15)+B_{\bar{N}}(19) = 179+(N-13)+19 = N+185 \\
&(N \geq 179)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+209) &= B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+206)) \\
&= B_{\bar{N}}(2N+209-(N+185))+B_{\bar{N}}(2N+209-(2N+29))+B_{\bar{N}}(2N+209-223) \\
&= B_{\bar{N}}(N+24)+B_{\bar{N}}(180)+B_{\bar{N}}(2N-14) = (2N+11)+180+(2N-13) = 4N+178 \\
&(N \geq 180)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+210) &= B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+207)) \\
&= B_{\bar{N}}(2N+210-(4N+178))+B_{\bar{N}}(2N+210-(N+185))+B_{\bar{N}}(2N+210-(2N+29)) \\
&= B_{\bar{N}}(-2N+32)+B_{\bar{N}}(N+25)+B_{\bar{N}}(181) = 0+(2N+5)+181 = 2N+186 \\
&(N \geq 181)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+211) &= B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+208)) \\
&= B_{\bar{N}}(2N+211-(2N+186))+B_{\bar{N}}(2N+211-(4N+178))+B_{\bar{N}}(2N+211-(N+185)) \\
&= B_{\bar{N}}(25)+B_{\bar{N}}(-2N+33)+B_{\bar{N}}(N+26) = 25+0+9 = 34 \\
&(N \geq 25)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+212) &= B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+209)) \\
&= B_{\bar{N}}(2N+212-34)+B_{\bar{N}}(2N+212-(2N+186))+B_{\bar{N}}(2N+212-(4N+178)) \\
&= B_{\bar{N}}(2N+178)+B_{\bar{N}}(26)+B_{\bar{N}}(-2N+34)=(N+149)+26+0=N+175 \\
&(N \geq 26)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+213) &= B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+210)) \\
&= B_{\bar{N}}(2N+213-(N+175))+B_{\bar{N}}(2N+213-34)+B_{\bar{N}}(2N+213-(2N+186)) \\
&= B_{\bar{N}}(N+38)+B_{\bar{N}}(2N+179)+B_{\bar{N}}(27)=(2N+10)+(N+165)+27=3N+202 \\
&(N \geq 27)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+214) &= B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+211)) \\
&= B_{\bar{N}}(2N+214-(3N+202))+B_{\bar{N}}(2N+214-(N+175))+B_{\bar{N}}(2N+214-34) \\
&= B_{\bar{N}}(-N+12)+B_{\bar{N}}(N+39)+B_{\bar{N}}(2N+180)=0+(N+4)+(N+175)=2N+179 \\
&(N \geq 12)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+215) &= B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+212)) \\
&= B_{\bar{N}}(2N+215-(2N+179))+B_{\bar{N}}(2N+215-(3N+202))+B_{\bar{N}}(2N+215-(N+175)) \\
&= B_{\bar{N}}(36)+B_{\bar{N}}(-N+13)+B_{\bar{N}}(N+40)=36+0+39=75 \\
&(N \geq 36)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+216) &= B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+213)) \\
&= B_{\bar{N}}(2N+216-75)+B_{\bar{N}}(2N+216-(2N+179))+B_{\bar{N}}(2N+216-(3N+202)) \\
&= B_{\bar{N}}(2N+141)+B_{\bar{N}}(37)+B_{\bar{N}}(-N+14)=(2N+212)+37+0=2N+249 \\
&(N \geq 37)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+217) &= B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+214)) \\
&= B_{\bar{N}}(2N+217-(2N+249))+B_{\bar{N}}(2N+217-75)+B_{\bar{N}}(2N+217-(2N+179)) \\
&= B_{\bar{N}}(-32)+B_{\bar{N}}(2N+142)+B_{\bar{N}}(38) = 0+(2N+144)+38 = 2N+182 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+218) &= B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+215)) \\
&= B_{\bar{N}}(2N+218-(2N+182))+B_{\bar{N}}(2N+218-(2N+249))+B_{\bar{N}}(2N+218-75) \\
&= B_{\bar{N}}(36)+B_{\bar{N}}(-31)+B_{\bar{N}}(2N+143) = 36+0+(N-2) = N+34 \\
&(N \geq 36)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+219) &= B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+216)) \\
&= B_{\bar{N}}(2N+219-(N+34))+B_{\bar{N}}(2N+219-(2N+182))+B_{\bar{N}}(2N+219-(2N+249)) \\
&= B_{\bar{N}}(N+185)+B_{\bar{N}}(37)+B_{\bar{N}}(-30) = 7+37+0 = 44 \\
&(N \geq 37)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+220) &= B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+217)) \\
&= B_{\bar{N}}(2N+220-44)+B_{\bar{N}}(2N+220-(N+34))+B_{\bar{N}}(2N+220-(2N+182)) \\
&= B_{\bar{N}}(2N+176)+B_{\bar{N}}(N+186)+B_{\bar{N}}(38) = (N+166)+(2N+97)+38 = 3N+301 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+221) &= B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+218)) \\
&= B_{\bar{N}}(2N+221-(3N+301))+B_{\bar{N}}(2N+221-44)+B_{\bar{N}}(2N+221-(N+34)) \\
&= B_{\bar{N}}(-N-80)+B_{\bar{N}}(2N+177)+B_{\bar{N}}(N+187) = 0+(2N+38)+(2N+19) = 4N+57 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+222) &= B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+219)) \\
&= B_{\bar{N}}(2N+222-(4N+57))+B_{\bar{N}}(2N+222-(3N+301))+B_{\bar{N}}(2N+222-44) \\
&= B_{\bar{N}}(-2N+165)+B_{\bar{N}}(-N-79)+B_{\bar{N}}(2N+178) = 0+0+(N+149) = N+149 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+223) &= B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+220)) \\
&= B_{\bar{N}}(2N+223-(N+149))+B_{\bar{N}}(2N+223-(4N+57))+B_{\bar{N}}(2N+223-(3N+301)) \\
&= B_{\bar{N}}(N+74)+B_{\bar{N}}(-2N+166)+B_{\bar{N}}(-N-78) = (2N+65)+0+0 = 2N+65 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+224) &= B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+221)) \\
&= B_{\bar{N}}(2N+224-(2N+65))+B_{\bar{N}}(2N+224-(N+149))+B_{\bar{N}}(2N+224-(4N+57)) \\
&= B_{\bar{N}}(159)+B_{\bar{N}}(N+75)+B_{\bar{N}}(-2N+167) = 159+(2N+3)+0 = 2N+162 \\
&(N \geq 159)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+225) &= B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+222)) \\
&= B_{\bar{N}}(2N+225-(2N+162))+B_{\bar{N}}(2N+225-(2N+65))+B_{\bar{N}}(2N+225-(N+149)) \\
&= B_{\bar{N}}(63)+B_{\bar{N}}(160)+B_{\bar{N}}(N+76) = 63+160+(N-2) = N+221 \\
&(N \geq 160)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+226) &= B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+223)) \\
&= B_{\bar{N}}(2N+226-(N+221))+B_{\bar{N}}(2N+226-(2N+162))+B_{\bar{N}}(2N+226-(2N+65)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(64)+B_{\bar{N}}(161) = 9+64+161 = 234 \\
&(N \geq 161)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+227) &= B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+224)) \\
&= B_{\bar{N}}(2N+227-234)+B_{\bar{N}}(2N+227-(N+221))+B_{\bar{N}}(2N+227-(2N+162)) \\
&= B_{\bar{N}}(2N-7)+B_{\bar{N}}(N+6)+B_{\bar{N}}(65) = (2N-6)+(N+4)+65 = 3N+63 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+228) &= B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+225)) \\
&= B_{\bar{N}}(2N+228-(3N+63))+B_{\bar{N}}(2N+228-234)+B_{\bar{N}}(2N+228-(N+221)) \\
&= B_{\bar{N}}(-N+165)+B_{\bar{N}}(2N-6)+B_{\bar{N}}(N+7) = 0+(2N-4)+(N+5) = 3N+1 \\
&(N \geq 165)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+229) &= B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+226)) \\
&= B_{\bar{N}}(2N+229-(3N+1))+B_{\bar{N}}(2N+229-(3N+63))+B_{\bar{N}}(2N+229-234) \\
&= B_{\bar{N}}(-N+228)+B_{\bar{N}}(-N+166)+B_{\bar{N}}(2N-5) = 0+0+7 = 7 \\
&(N \geq 228)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+230) &= B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+227)) \\
&= B_{\bar{N}}(2N+230-7)+B_{\bar{N}}(2N+230-(3N+1))+B_{\bar{N}}(2N+230-(3N+63)) \\
&= B_{\bar{N}}(2N+223)+B_{\bar{N}}(-N+229)+B_{\bar{N}}(-N+167) = (2N+65)+0+0 = 2N+65 \\
&(N \geq 229)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+231) &= B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+228)) \\
&= B_{\bar{N}}(2N+231-(2N+65))+B_{\bar{N}}(2N+231-7)+B_{\bar{N}}(2N+231-(3N+1)) \\
&= B_{\bar{N}}(166)+B_{\bar{N}}(2N+224)+B_{\bar{N}}(-N+230) = 166+(2N+162)+0 = 2N+328 \\
&(N \geq 230)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+232) &= B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+229)) \\
&= B_{\bar{N}}(2N+232-(2N+328))+B_{\bar{N}}(2N+232-(2N+65))+B_{\bar{N}}(2N+232-7) \\
&= B_{\bar{N}}(-96)+B_{\bar{N}}(167)+B_{\bar{N}}(2N+225) = 0+167+(N+221) = N+388 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+233) &= B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+230)) \\
&= B_{\bar{N}}(2N+233-(N+388))+B_{\bar{N}}(2N+233-(2N+328))+B_{\bar{N}}(2N+233-(2N+65)) \\
&= B_{\bar{N}}(N-155)+B_{\bar{N}}(-95)+B_{\bar{N}}(168) = (N-155)+0+168 = N+13 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+234) &= B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+231)) \\
&= B_{\bar{N}}(2N+234-(N+13))+B_{\bar{N}}(2N+234-(N+388))+B_{\bar{N}}(2N+234-(2N+328)) \\
&= B_{\bar{N}}(N+221)+B_{\bar{N}}(N-154)+B_{\bar{N}}(-94) = (2N+107)+(N-154)+0 = 3N-47 \\
&(N \geq 155)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+235) &= B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+232)) \\
&= B_{\bar{N}}(2N+235-(3N-47))+B_{\bar{N}}(2N+235-(N+13))+B_{\bar{N}}(2N+235-(N+388)) \\
&= B_{\bar{N}}(-N+282)+B_{\bar{N}}(N+222)+B_{\bar{N}}(N-153) = 0+(2N+24)+(N-153) = 3N-129 \\
&(N \geq 282)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+236) &= B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+233)) \\
&= B_{\bar{N}}(2N+236-(3N-129))+B_{\bar{N}}(2N+236-(3N-47))+B_{\bar{N}}(2N+236-(N+13)) \\
&= B_{\bar{N}}(-N+365)+B_{\bar{N}}(-N+283)+B_{\bar{N}}(N+223) = 0+0+(N-2) = N-2 \\
&(N \geq 365)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+237) &= B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+234)) \\
&= B_{\bar{N}}(2N+237-(N-2))+B_{\bar{N}}(2N+237-(3N-129))+B_{\bar{N}}(2N+237-(3N-47)) \\
&= B_{\bar{N}}(N+239)+B_{\bar{N}}(-N+366)+B_{\bar{N}}(-N+284)=(N+240)+0+0=N+240 \\
&(N \geq 366)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+238) &= B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+235)) \\
&= B_{\bar{N}}(2N+238-(N+240))+B_{\bar{N}}(2N+238-(N-2))+B_{\bar{N}}(2N+238-(3N-129)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N+240)+B_{\bar{N}}(-N+367)=(N-2)+(N+242)+0=2N+240 \\
&(N \geq 367)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+239) &= B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+236)) \\
&= B_{\bar{N}}(2N+239-(2N+240))+B_{\bar{N}}(2N+239-(N+240))+B_{\bar{N}}(2N+239-(N-2)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N+241)=0+(N-1)+7=N+6 \\
&(N \geq 2)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+240) &= B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+237)) \\
&= B_{\bar{N}}(2N+240-(N+6))+B_{\bar{N}}(2N+240-(2N+240))+B_{\bar{N}}(2N+240-(N+240)) \\
&= B_{\bar{N}}(N+234)+B_{\bar{N}}(0)+B_{\bar{N}}(N)=7+0+N=N+7 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+241) &= B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+238)) \\
&= B_{\bar{N}}(2N+241-(N+7))+B_{\bar{N}}(2N+241-(N+6))+B_{\bar{N}}(2N+241-(2N+240)) \\
&= B_{\bar{N}}(N+234)+B_{\bar{N}}(N+235)+B_{\bar{N}}(1)=7+(2N+111)+1=2N+119 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+242) &= B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+239)) \\
&= B_{\bar{N}}(2N+242-(2N+119))+B_{\bar{N}}(2N+242-(N+7))+B_{\bar{N}}(2N+242-(N+6)) \\
&= B_{\bar{N}}(123)+B_{\bar{N}}(N+235)+B_{\bar{N}}(N+236) = 123+(2N+111)+(2N+26) = 4N+260 \\
&(N \geq 123)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+243) &= B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+240)) \\
&= B_{\bar{N}}(2N+243-(4N+260))+B_{\bar{N}}(2N+243-(2N+119))+B_{\bar{N}}(2N+243-(N+7)) \\
&= B_{\bar{N}}(-2N-17)+B_{\bar{N}}(124)+B_{\bar{N}}(N+236) = 0+124+(2N+26) = 2N+150 \\
&(N \geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+244) &= B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+241)) \\
&= B_{\bar{N}}(2N+244-(2N+150))+B_{\bar{N}}(2N+244-(4N+260))+B_{\bar{N}}(2N+244-(2N+119)) \\
&= B_{\bar{N}}(94)+B_{\bar{N}}(-2N-16)+B_{\bar{N}}(125) = 94+0+125 = 219 \\
&(N \geq 125)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+245) &= B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+242)) \\
&= B_{\bar{N}}(2N+245-219)+B_{\bar{N}}(2N+245-(2N+150))+B_{\bar{N}}(2N+245-(4N+260)) \\
&= B_{\bar{N}}(2N+26)+B_{\bar{N}}(95)+B_{\bar{N}}(-2N-15) = (N+28)+95+0 = N+123 \\
&(N \geq 95)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+246) &= B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+243)) \\
&= B_{\bar{N}}(2N+246-(N+123))+B_{\bar{N}}(2N+246-219)+B_{\bar{N}}(2N+246-(2N+150)) \\
&= B_{\bar{N}}(N+123)+B_{\bar{N}}(2N+27)+B_{\bar{N}}(96) = (2N+79)+(2N+13)+96 = 4N+188 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+247) &= B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+244)) \\
&= B_{\bar{N}}(2N+247-(4N+188))+B_{\bar{N}}(2N+247-(N+123))+B_{\bar{N}}(2N+247-219) \\
&= B_{\bar{N}}(-2N+59)+B_{\bar{N}}(N+124)+B_{\bar{N}}(2N+28) = 0+(2N+10)+(N+24) = 3N+34 \\
&(N \geq 30)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+248) &= B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+245)) \\
&= B_{\bar{N}}(2N+248-(3N+34))+B_{\bar{N}}(2N+248-(4N+188))+B_{\bar{N}}(2N+248-(N+123)) \\
&= B_{\bar{N}}(-N+214)+B_{\bar{N}}(-2N+60)+B_{\bar{N}}(N+125) = 0+0+(N-2) = N-2 \\
&(N \geq 214)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+249) &= B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+246)) \\
&= B_{\bar{N}}(2N+249-(N-2))+B_{\bar{N}}(2N+249-(3N+34))+B_{\bar{N}}(2N+249-(4N+188)) \\
&= B_{\bar{N}}(N+251)+B_{\bar{N}}(-N+215)+B_{\bar{N}}(-2N+61) = (N-2)+0+0 = N-2 \\
&(N \geq 215)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+250) &= B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+247)) \\
&= B_{\bar{N}}(2N+250-(N-2))+B_{\bar{N}}(2N+250-(N-2))+B_{\bar{N}}(2N+250-(3N+34)) \\
&= B_{\bar{N}}(N+252)+B_{\bar{N}}(N+252)+B_{\bar{N}}(-N+216) = 254+254+0 = 508 \\
&(N \geq 216)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+251) &= B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+248)) \\
&= B_{\bar{N}}(2N+251-508)+B_{\bar{N}}(2N+251-(N-2))+B_{\bar{N}}(2N+251-(N-2)) \\
&= B_{\bar{N}}(2N-257)+B_{\bar{N}}(N+253)+B_{\bar{N}}(N+253) = 7+(N+254)+(N+254) = 2N+515 \\
&(N \geq 324)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+252) &= B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+249)) \\
&= B_{\bar{N}}(2N+252-(2N+515))+B_{\bar{N}}(2N+252-508)+B_{\bar{N}}(2N+252-(N-2)) \\
&= B_{\bar{N}}(-263)+B_{\bar{N}}(2N-256)+B_{\bar{N}}(N+254) = 0+\left(\frac{16N}{7}-\frac{205}{7}\right)+(N+256) = \frac{23N}{7}+\frac{1587}{7} \\
&(N \geq 323)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+253) &= B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+250)) \\
&= B_{\bar{N}}\left(2N+253-\left(\frac{23N}{7}+\frac{1587}{7}\right)\right)+B_{\bar{N}}(2N+253-(2N+515))+B_{\bar{N}}(2N+253-508) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}+\frac{184}{7}\right)+B_{\bar{N}}(-262)+B_{\bar{N}}(2N-255) = 0+0+\left(\frac{15N}{7}-\frac{309}{7}\right) = \frac{15N}{7}-\frac{309}{7} \\
&(N \geq 322)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+254) &= B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+253))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+251)) \\
&= B_{\bar{N}}\left(2N+254-\left(\frac{15N}{7}-\frac{309}{7}\right)\right)+B_{\bar{N}}\left(2N+254-\left(\frac{23N}{7}+\frac{1587}{7}\right)\right)+B_{\bar{N}}(2N+254-(2N+515)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{2087}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{191}{7}\right)+B_{\bar{N}}(-261) = 0+0+0 = 0 \\
&(N \geq 2087)*
\end{aligned}
$$