Terms $B_{\bar{N}}(2N-1)$ through $B_{\bar{N}}(2N+524)$ when $N \equiv 2 \pmod 7$

When $N \equiv 2 \pmod 7$ and $N \geq 72$, a pattern with 7 interleaved linear sequences lasts from index $N+67$ through $2N-2$. If $N \geq 3201$, there are 526 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.

$$\begin{aligned}
B_{\bar{N}}(2N-1) &= B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-2)) + B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-3)) + B_{\bar{N}}(2N-1-B_{\bar{N}}(2N-4)) \\
&= B_{\bar{N}}(2N-1-N) + B_{\bar{N}}(2N-1-(N-2)) + B_{\bar{N}}\left(2N-1-\left(\frac{15N}{7}-\frac{58}{7}\right)\right) \\
&= B_{\bar{N}}(N-1) + B_{\bar{N}}(N+1) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{51}{7}\right) = (N-1)+6+0 = N+5 \\
&(N \geq 71)
\end{aligned}$$

$$\begin{aligned}
B_{\bar{N}}(2N) &= B_{\bar{N}}(2N-B_{\bar{N}}(2N-1)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-2)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-3)) \\
&= B_{\bar{N}}(2N-(N+5)) + B_{\bar{N}}(2N-N) + B_{\bar{N}}(2N-(N-2)) \\
&= B_{\bar{N}}(N-5) + B_{\bar{N}}(N) + B_{\bar{N}}(N+2) = (N-5)+N+(N+1) = 3N-4 \\
&(N \geq 73)*
\end{aligned}$$

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

$$\begin{aligned}
B_{\bar{N}}(2N+2) &= B_{\bar{N}}(2N+2-B_{\bar{N}}(2N+1)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N-1)) \\
&= B_{\bar{N}}(2N+2-(N+2)) + B_{\bar{N}}(2N+2-(3N-4)) + B_{\bar{N}}(2N+2-(N+5)) \\
&= B_{\bar{N}}(N) + B_{\bar{N}}(-N+6) + B_{\bar{N}}(N-3) = N+0+(N-3) = 2N-3 \\
&(N \geq 71)
\end{aligned}$$

$$
\begin{aligned}
B_{\bar{N}}(2N+3) &= B_{\bar{N}}(2N+3-B_{\bar{N}}(2N+2)) + B_{\bar{N}}(2N+3-B_{\bar{N}}(2N+1)) + B_{\bar{N}}(2N+3-B_{\bar{N}}(2N)) \\
&= B_{\bar{N}}(2N+3-(2N-3)) + B_{\bar{N}}(2N+3-(N+2)) + B_{\bar{N}}(2N+3-(3N-4)) \\
&= B_{\bar{N}}(6) + B_{\bar{N}}(N+1) + B_{\bar{N}}(-N+7) = 6+6+0 = 12 \\
&(N \geq 7)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+4) &= B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+3)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+2)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+1)) \\
&= B_{\bar{N}}(2N+4-12) + B_{\bar{N}}(2N+4-(2N-3)) + B_{\bar{N}}(2N+4-(N+2)) \\
&= B_{\bar{N}}(2N-8) + B_{\bar{N}}(7) + B_{\bar{N}}(N+2) = (2N-7)+7+(N+1) = 3N+1 \\
&(N \geq 75) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+5) &= B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+4)) + B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+3)) + B_{\bar{N}}(2N+5-B_{\bar{N}}(2N+2)) \\
&= B_{\bar{N}}(2N+5-(3N+1)) + B_{\bar{N}}(2N+5-12) + B_{\bar{N}}(2N+5-(2N-3)) \\
&= B_{\bar{N}}(-N+4) + B_{\bar{N}}(2N-7) + B_{\bar{N}}(8) = 0+(2N-5)+8 = 2N+3 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+6) &= B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+4)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+3)) \\
&= B_{\bar{N}}(2N+6-(2N+3)) + B_{\bar{N}}(2N+6-(3N+1)) + B_{\bar{N}}(2N+6-12) \\
&= B_{\bar{N}}(3) + B_{\bar{N}}(-N+5) + B_{\bar{N}}(2N-6) = 3+0+7 = 10 \\
&(N \geq 73)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+7) &= B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+4)) \\
&= B_{\bar{N}}(2N+7-10) + B_{\bar{N}}(2N+7-(2N+3)) + B_{\bar{N}}(2N+7-(3N+1)) \\
&= B_{\bar{N}}(2N-3) + B_{\bar{N}}(4) + B_{\bar{N}}(-N+6) = (N-2)+4+0 = N+2 \\
&(N \geq 77) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+8) &= B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+5)) \\
&= B_{\bar{N}}(2N+8-(N+2)) + B_{\bar{N}}(2N+8-10) + B_{\bar{N}}(2N+8-(2N+3)) \\
&= B_{\bar{N}}(N+6) + B_{\bar{N}}(2N-2) + B_{\bar{N}}(5) = (N+4) + N + 5 = 2N+9 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+9) &= B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+6)) \\
&= B_{\bar{N}}(2N+9-(2N+9)) + B_{\bar{N}}(2N+9-(N+2)) + B_{\bar{N}}(2N+9-10) \\
&= B_{\bar{N}}(0) + B_{\bar{N}}(N+7) + B_{\bar{N}}(2N-1) = 0 + (N+5) + (N+5) = 2N+10 \\
&(N \geq 105) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+10) &= B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+7)) \\
&= B_{\bar{N}}(2N+10-(2N+10)) + B_{\bar{N}}(2N+10-(2N+9)) + B_{\bar{N}}(2N+10-(N+2)) \\
&= B_{\bar{N}}(0) + B_{\bar{N}}(1) + B_{\bar{N}}(N+8) = 0 + 1 + (N+6) = N+7 \\
&(N \geq 112) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+11) &= B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+10)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+8)) \\
&= B_{\bar{N}}(2N+11-(N+7)) + B_{\bar{N}}(2N+11-(2N+10)) + B_{\bar{N}}(2N+11-(2N+9)) \\
&= B_{\bar{N}}(N+4) + B_{\bar{N}}(1) + B_{\bar{N}}(2) = (N+3) + 1 + 2 = N+6 \\
&(N \geq 119) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+12) &= B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+11)) + B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+10)) + B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+9)) \\
&= B_{\bar{N}}(2N+12-(N+6)) + B_{\bar{N}}(2N+12-(N+7)) + B_{\bar{N}}(2N+12-(2N+10)) \\
&= B_{\bar{N}}(N+6) + B_{\bar{N}}(N+5) + B_{\bar{N}}(2) = (N+4) + 9 + 2 = N+15 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+13) &= B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+12))+B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+11))+B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+10)) \\
&= B_{\bar{N}}(2N+13-(N+15))+B_{\bar{N}}(2N+13-(N+6))+B_{\bar{N}}(2N+13-(N+7)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N+7)+B_{\bar{N}}(N+6) = (N-2)+(N+5)+(N+4) = 3N+7 \\
&(N \geq 12)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+14) &= B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+13))+B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+12))+B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+11)) \\
&= B_{\bar{N}}(2N+14-(3N+7))+B_{\bar{N}}(2N+14-(N+15))+B_{\bar{N}}(2N+14-(N+6)) \\
&= B_{\bar{N}}(-N+7)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N+8) = 0+(N-1)+(N+6) = 2N+5 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+15) &= B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+14))+B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+13))+B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+12)) \\
&= B_{\bar{N}}(2N+15-(2N+5))+B_{\bar{N}}(2N+15-(3N+7))+B_{\bar{N}}(2N+15-(N+15)) \\
&= B_{\bar{N}}(10)+B_{\bar{N}}(-N+8)+B_{\bar{N}}(N) = 10+0+N = N+10 \\
&(N \geq 15)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+16) &= B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+15))+B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+14))+B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+13)) \\
&= B_{\bar{N}}(2N+16-(N+10))+B_{\bar{N}}(2N+16-(2N+5))+B_{\bar{N}}(2N+16-(3N+7)) \\
&= B_{\bar{N}}(N+6)+B_{\bar{N}}(11)+B_{\bar{N}}(-N+9) = (N+4)+11+0 = N+15 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+17) &= B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+16))+B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+15))+B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+14)) \\
&= B_{\bar{N}}(2N+17-(N+15))+B_{\bar{N}}(2N+17-(N+10))+B_{\bar{N}}(2N+17-(2N+5)) \\
&= B_{\bar{N}}(N+2)+B_{\bar{N}}(N+7)+B_{\bar{N}}(12) = (N+1)+(N+5)+12 = 2N+18 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+18) &= B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+17))+B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+16))+B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+15)) \\
&= B_{\bar{N}}(2N+18-(2N+18))+B_{\bar{N}}(2N+18-(N+15))+B_{\bar{N}}(2N+18-(N+10)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(N+3)+B_{\bar{N}}(N+8) = 0+(N+2)+(N+6) = 2N+8 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+19) &= B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+18))+B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+17))+B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+16)) \\
&= B_{\bar{N}}(2N+19-(2N+8))+B_{\bar{N}}(2N+19-(2N+18))+B_{\bar{N}}(2N+19-(N+15)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(1)+B_{\bar{N}}(N+4) = 11+1+(N+3) = N+15 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+20) &= B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+19))+B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+18))+B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+17)) \\
&= B_{\bar{N}}(2N+20-(N+15))+B_{\bar{N}}(2N+20-(2N+8))+B_{\bar{N}}(2N+20-(2N+18)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(12)+B_{\bar{N}}(2) = 9+12+2 = 23 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+21) &= B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+19))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+18)) \\
&= B_{\bar{N}}(2N+21-23)+B_{\bar{N}}(2N+21-(N+15))+B_{\bar{N}}(2N+21-(2N+8)) \\
&= B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+6)+B_{\bar{N}}(13) = N+(N+4)+13 = 2N+17 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+22) &= B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+19)) \\
&= B_{\bar{N}}(2N+22-(2N+17))+B_{\bar{N}}(2N+22-23)+B_{\bar{N}}(2N+22-(N+15)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(2N-1)+B_{\bar{N}}(N+7) = 5+(N+5)+(N+5) = 2N+15 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+23) &= B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+20)) \\
&= B_{\bar{N}}(2N+23-(2N+15))+B_{\bar{N}}(2N+23-(2N+17))+B_{\bar{N}}(2N+23-23) \\
&= B_{\bar{N}}(8)+B_{\bar{N}}(6)+B_{\bar{N}}(2N) = 8+6+(3N-4) = 3N+10 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+24) &= B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+21)) \\
&= B_{\bar{N}}(2N+24-(3N+10))+B_{\bar{N}}(2N+24-(2N+15))+B_{\bar{N}}(2N+24-(2N+17)) \\
&= B_{\bar{N}}(-N+14)+B_{\bar{N}}(9)+B_{\bar{N}}(7) = 0+9+7 = 16 \\
&(N \geq 79)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+25) &= B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+22)) \\
&= B_{\bar{N}}(2N+25-16)+B_{\bar{N}}(2N+25-(3N+10))+B_{\bar{N}}(2N+25-(2N+15)) \\
&= B_{\bar{N}}(2N+9)+B_{\bar{N}}(-N+15)+B_{\bar{N}}(10) = (2N+10)+0+10 = 2N+20 \\
&(N \geq 78)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+26) &= B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+23)) \\
&= B_{\bar{N}}(2N+26-(2N+20))+B_{\bar{N}}(2N+26-16)+B_{\bar{N}}(2N+26-(3N+10)) \\
&= B_{\bar{N}}(6)+B_{\bar{N}}(2N+10)+B_{\bar{N}}(-N+16) = 6+(N+7)+0 = N+13 \\
&(N \geq 189)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+27) &= B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+24)) \\
&= B_{\bar{N}}(2N+27-(N+13))+B_{\bar{N}}(2N+27-(2N+20))+B_{\bar{N}}(2N+27-16) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}(7)+B_{\bar{N}}(2N+11) = (N+10)+7+(N+6) = 2N+23 \\
&(N \geq 196)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+28) &= B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+25)) \\
&= B_{\bar{N}}(2N+28-(2N+23))+B_{\bar{N}}(2N+28-(N+13))+B_{\bar{N}}(2N+28-(2N+20)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(N+15)+B_{\bar{N}}(8) = 5+(N+11)+8 = N+24 \\
&(N \geq 15)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+29) &= B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+26)) \\
&= B_{\bar{N}}(2N+29-(N+24))+B_{\bar{N}}(2N+29-(2N+23))+B_{\bar{N}}(2N+29-(N+13)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(6)+B_{\bar{N}}(N+16) = 9+6+17 = 32 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+30) &= B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+27)) \\
&= B_{\bar{N}}(2N+30-32)+B_{\bar{N}}(2N+30-(N+24))+B_{\bar{N}}(2N+30-(2N+23)) \\
&= B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+6)+B_{\bar{N}}(7) = N+(N+4)+7 = 2N+11 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+31) &= B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+28)) \\
&= B_{\bar{N}}(2N+31-(2N+11))+B_{\bar{N}}(2N+31-32)+B_{\bar{N}}(2N+31-(N+24)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(2N-1)+B_{\bar{N}}(N+7) = 20+(N+5)+(N+5) = 2N+30 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+32) &= B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+29)) \\
&= B_{\bar{N}}(2N+32-(2N+30))+B_{\bar{N}}(2N+32-(2N+11))+B_{\bar{N}}(2N+32-32) \\
&= B_{\bar{N}}(2)+B_{\bar{N}}(21)+B_{\bar{N}}(2N) = 2+21+(3N-4) = 3N+19 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+33) &= B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+30)) \\
&= B_{\bar{N}}(2N+33-(3N+19))+B_{\bar{N}}(2N+33-(2N+30))+B_{\bar{N}}(2N+33-(2N+11)) \\
&= B_{\bar{N}}(-N+14)+B_{\bar{N}}(3)+B_{\bar{N}}(22)=0+3+22=25 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+34) &= B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+31)) \\
&= B_{\bar{N}}(2N+34-25)+B_{\bar{N}}(2N+34-(3N+19))+B_{\bar{N}}(2N+34-(2N+30)) \\
&= B_{\bar{N}}(2N+9)+B_{\bar{N}}(-N+15)+B_{\bar{N}}(4)=(2N+10)+0+4=2N+14 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+35) &= B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+32)) \\
&= B_{\bar{N}}(2N+35-(2N+14))+B_{\bar{N}}(2N+35-25)+B_{\bar{N}}(2N+35-(3N+19)) \\
&= B_{\bar{N}}(21)+B_{\bar{N}}(2N+10)+B_{\bar{N}}(-N+16)=21+(N+7)+0=N+28 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+36) &= B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+33)) \\
&= B_{\bar{N}}(2N+36-(N+28))+B_{\bar{N}}(2N+36-(2N+14))+B_{\bar{N}}(2N+36-25) \\
&= B_{\bar{N}}(N+8)+B_{\bar{N}}(22)+B_{\bar{N}}(2N+11)=(N+6)+22+(N+6)=2N+34 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+37) &= B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+34)) \\
&= B_{\bar{N}}(2N+37-(2N+34))+B_{\bar{N}}(2N+37-(N+28))+B_{\bar{N}}(2N+37-(2N+14)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(N+9)+B_{\bar{N}}(23)=3+12+23=38 \\
&(N \geq 23)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+38) &= B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+35)) \\
&= B_{\bar{N}}(2N+38-38)+B_{\bar{N}}(2N+38-(2N+34))+B_{\bar{N}}(2N+38-(N+28)) \\
&= B_{\bar{N}}(2N)+B_{\bar{N}}(4)+B_{\bar{N}}(N+10) = (3N-4)+4+(N+7) = 4N+7 \\
&(N \geq 31)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+39) &= B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+36)) \\
&= B_{\bar{N}}(2N+39-(4N+7))+B_{\bar{N}}(2N+39-38)+B_{\bar{N}}(2N+39-(2N+34)) \\
&= B_{\bar{N}}(-2N+32)+B_{\bar{N}}(2N+1)+B_{\bar{N}}(5) = 0+(N+2)+5 = N+7 \\
&(N \geq 32)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+40) &= B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+37)) \\
&= B_{\bar{N}}(2N+40-(N+7))+B_{\bar{N}}(2N+40-(4N+7))+B_{\bar{N}}(2N+40-38) \\
&= B_{\bar{N}}(N+33)+B_{\bar{N}}(-2N+33)+B_{\bar{N}}(2N+2) = (N+35)+0+(2N-3) = 3N+32 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+41) &= B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+38)) \\
&= B_{\bar{N}}(2N+41-(3N+32))+B_{\bar{N}}(2N+41-(N+7))+B_{\bar{N}}(2N+41-(4N+7)) \\
&= B_{\bar{N}}(-N+9)+B_{\bar{N}}(N+34)+B_{\bar{N}}(-2N+34) = 0+(N+13)+0 = N+13 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+42) &= B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+39)) \\
&= B_{\bar{N}}(2N+42-(N+13))+B_{\bar{N}}(2N+42-(3N+32))+B_{\bar{N}}(2N+42-(N+7)) \\
&= B_{\bar{N}}(N+29)+B_{\bar{N}}(-N+10)+B_{\bar{N}}(N+35) = (2N+23)+0+27 = 2N+50 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+43) &= B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+40)) \\
&= B_{\bar{N}}(2N+43-(2N+50))+B_{\bar{N}}(2N+43-(N+13))+B_{\bar{N}}(2N+43-(3N+32)) \\
&= B_{\bar{N}}(-7)+B_{\bar{N}}(N+30)+B_{\bar{N}}(-N+11)=0+(N+9)+0=N+9 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+44) &= B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+41)) \\
&= B_{\bar{N}}(2N+44-(N+9))+B_{\bar{N}}(2N+44-(2N+50))+B_{\bar{N}}(2N+44-(N+13)) \\
&= B_{\bar{N}}(N+35)+B_{\bar{N}}(-6)+B_{\bar{N}}(N+31)=27+0+22=49 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+45) &= B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+42)) \\
&= B_{\bar{N}}(2N+45-49)+B_{\bar{N}}(2N+45-(N+9))+B_{\bar{N}}(2N+45-(2N+50)) \\
&= B_{\bar{N}}(2N-4)+B_{\bar{N}}(N+36)+B_{\bar{N}}(-5)=\left(\frac{15N}{7}-\frac{58}{7}\right)+36+0=\frac{15N}{7}+\frac{194}{7} \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+46) &= B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+45))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+43)) \\
&= B_{\bar{N}}\left(2N+46-\left(\frac{15N}{7}+\frac{194}{7}\right)\right)+B_{\bar{N}}(2N+46-49)+B_{\bar{N}}(2N+46-(N+9)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{128}{7}\right)+B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+37)=0+(N-2)+(N+37)=2N+35 \\
&(N \geq 128)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+47) &= B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+46)) + B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+45)) + B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+44)) \\
&= B_{\bar{N}}(2N+47-(2N+35)) + B_{\bar{N}}\left(2N+47-\left(\frac{15N}{7}+\frac{194}{7}\right)\right) + B_{\bar{N}}(2N+47-49) \\
&= B_{\bar{N}}(12) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{135}{7}\right) + B_{\bar{N}}(2N-2) = 12+0+N = N+12 \\
&(N \geq 135)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+48) &= B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+47)) + B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+46)) + B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+45)) \\
&= B_{\bar{N}}(2N+48-(N+12)) + B_{\bar{N}}(2N+48-(2N+35)) + B_{\bar{N}}\left(2N+48-\left(\frac{15N}{7}+\frac{194}{7}\right)\right) \\
&= B_{\bar{N}}(N+36) + B_{\bar{N}}(13) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{142}{7}\right) = 36+13+0 = 49 \\
&(N \geq 142)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+49) &= B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+48)) + B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+47)) + B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+46)) \\
&= B_{\bar{N}}(2N+49-49) + B_{\bar{N}}(2N+49-(N+12)) + B_{\bar{N}}(2N+49-(2N+35)) \\
&= B_{\bar{N}}(2N) + B_{\bar{N}}(N+37) + B_{\bar{N}}(14) = (3N-4) + (N+37) + 14 = 4N+47 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+50) &= B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+49)) + B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+48)) + B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+47)) \\
&= B_{\bar{N}}(2N+50-(4N+47)) + B_{\bar{N}}(2N+50-49) + B_{\bar{N}}(2N+50-(N+12)) \\
&= B_{\bar{N}}(-2N+3) + B_{\bar{N}}(2N+1) + B_{\bar{N}}(N+38) = 0 + (N+2) + (2N+10) = 3N+12 \\
&(N \geq 17)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+51) &= B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+49))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+48)) \\
&= B_{\bar{N}}(2N+51-(3N+12))+B_{\bar{N}}(2N+51-(4N+47))+B_{\bar{N}}(2N+51-49) \\
&= B_{\bar{N}}(-N+39)+B_{\bar{N}}(-2N+4)+B_{\bar{N}}(2N+2) = 0+0+(2N-3) = 2N-3 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+52) &= B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+49)) \\
&= B_{\bar{N}}(2N+52-(2N-3))+B_{\bar{N}}(2N+52-(3N+12))+B_{\bar{N}}(2N+52-(4N+47)) \\
&= B_{\bar{N}}(55)+B_{\bar{N}}(-N+40)+B_{\bar{N}}(-2N+5) = 55+0+0 = 55 \\
&(N \geq 55)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+53) &= B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+50)) \\
&= B_{\bar{N}}(2N+53-55)+B_{\bar{N}}(2N+53-(2N-3))+B_{\bar{N}}(2N+53-(3N+12)) \\
&= B_{\bar{N}}(2N-2)+B_{\bar{N}}(56)+B_{\bar{N}}(-N+41) = N+56+0 = N+56 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+54) &= B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+51)) \\
&= B_{\bar{N}}(2N+54-(N+56))+B_{\bar{N}}(2N+54-55)+B_{\bar{N}}(2N+54-(2N-3)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(2N-1)+B_{\bar{N}}(57) = (N-2)+(N+5)+57 = 2N+60 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+55) &= B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+52)) \\
&= B_{\bar{N}}(2N+55-(2N+60))+B_{\bar{N}}(2N+55-(N+56))+B_{\bar{N}}(2N+55-55) \\
&= B_{\bar{N}}(-5)+B_{\bar{N}}(N-1)+B_{\bar{N}}(2N) = 0+(N-1)+(3N-4) = 4N-5 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+56) &= B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+53)) \\
&= B_{\bar{N}}(2N+56-(4N-5))+B_{\bar{N}}(2N+56-(2N+60))+B_{\bar{N}}(2N+56-(N+56)) \\
&= B_{\bar{N}}(-2N+61)+B_{\bar{N}}(-4)+B_{\bar{N}}(N) = 0+0+N = N \\
&(N \geq 44)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+57) &= B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+54)) \\
&= B_{\bar{N}}(2N+57-N)+B_{\bar{N}}(2N+57-(4N-5))+B_{\bar{N}}(2N+57-(2N+60)) \\
&= B_{\bar{N}}(N+57)+B_{\bar{N}}(-2N+62)+B_{\bar{N}}(-3) = (N+49)+0+0 = N+49 \\
&(N \geq 45)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+58) &= B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+55)) \\
&= B_{\bar{N}}(2N+58-(N+49))+B_{\bar{N}}(2N+58-N)+B_{\bar{N}}(2N+58-(4N-5)) \\
&= B_{\bar{N}}(N+9)+B_{\bar{N}}(N+58)+B_{\bar{N}}(-2N+63) = 12+(N+60)+0 = N+72 \\
&(N \geq 32)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+59) &= B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+56)) \\
&= B_{\bar{N}}(2N+59-(N+72))+B_{\bar{N}}(2N+59-(N+49))+B_{\bar{N}}(2N+59-N) \\
&= B_{\bar{N}}(N-13)+B_{\bar{N}}(N+10)+B_{\bar{N}}(N+59) = (N-13)+(N+7)+25 = 2N+19 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+60) &= B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+57)) \\
&= B_{\bar{N}}(2N+60-(2N+19))+B_{\bar{N}}(2N+60-(N+72))+B_{\bar{N}}(2N+60-(N+49)) \\
&= B_{\bar{N}}(41)+B_{\bar{N}}(N-12)+B_{\bar{N}}(N+11) = 41+(N-12)+(N+8) = 2N+37 \\
&(N \geq 41)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+61) &= B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+58)) \\
&= B_{\bar{N}}(2N+61-(2N+37))+B_{\bar{N}}(2N+61-(2N+19))+B_{\bar{N}}(2N+61-(N+72)) \\
&= B_{\bar{N}}(24)+B_{\bar{N}}(42)+B_{\bar{N}}(N-11) = 24+42+(N-11) = N+55 \\
&(N \geq 42)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+62) &= B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+59)) \\
&= B_{\bar{N}}(2N+62-(N+55))+B_{\bar{N}}(2N+62-(2N+37))+B_{\bar{N}}(2N+62-(2N+19)) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}(25)+B_{\bar{N}}(43) = (N+5)+25+43 = N+73 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+63) &= B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+60)) \\
&= B_{\bar{N}}(2N+63-(N+73))+B_{\bar{N}}(2N+63-(N+55))+B_{\bar{N}}(2N+63-(2N+37)) \\
&= B_{\bar{N}}(N-10)+B_{\bar{N}}(N+8)+B_{\bar{N}}(26) = (N-10)+(N+6)+26 = 2N+22 \\
&(N \geq 26)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+64) &= B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+61)) \\
&= B_{\bar{N}}(2N+64-(2N+22))+B_{\bar{N}}(2N+64-(N+73))+B_{\bar{N}}(2N+64-(N+55)) \\
&= B_{\bar{N}}(42)+B_{\bar{N}}(N-9)+B_{\bar{N}}(N+9) = 42+(N-9)+12 = N+45 \\
&(N \geq 42)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+65) &= B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+62)) \\
&= B_{\bar{N}}(2N+65-(N+45))+B_{\bar{N}}(2N+65-(2N+22))+B_{\bar{N}}(2N+65-(N+73)) \\
&= B_{\bar{N}}(N+20)+B_{\bar{N}}(43)+B_{\bar{N}}(N-8) = (N+15)+43+(N-8) = 2N+50 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+66) &= B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+63)) \\
&= B_{\bar{N}}(2N+66-(2N+50))+B_{\bar{N}}(2N+66-(N+45))+B_{\bar{N}}(2N+66-(2N+22)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N+21)+B_{\bar{N}}(44) = 16+(N+16)+44 = N+76 \\
&(N \geq 58)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+67) &= B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+64)) \\
&= B_{\bar{N}}(2N+67-(N+76))+B_{\bar{N}}(2N+67-(2N+50))+B_{\bar{N}}(2N+67-(N+45)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(17)+B_{\bar{N}}(N+22) = (N-9)+17+22 = N+30 \\
&(N \geq 59)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+68) &= B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+65)) \\
&= B_{\bar{N}}(2N+68-(N+30))+B_{\bar{N}}(2N+68-(N+76))+B_{\bar{N}}(2N+68-(2N+50)) \\
&= B_{\bar{N}}(N+38)+B_{\bar{N}}(N-8)+B_{\bar{N}}(18) = (2N+10)+(N-8)+18 = 3N+20 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+69) &= B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+66)) \\
&= B_{\bar{N}}(2N+69-(3N+20))+B_{\bar{N}}(2N+69-(N+30))+B_{\bar{N}}(2N+69-(N+76)) \\
&= B_{\bar{N}}(-N+49)+B_{\bar{N}}(N+39)+B_{\bar{N}}(N-7) = 0+(N+4)+(N-7) = 2N-3 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+70) &= B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+67)) \\
&= B_{\bar{N}}(2N+70-(2N-3))+B_{\bar{N}}(2N+70-(3N+20))+B_{\bar{N}}(2N+70-(N+30)) \\
&= B_{\bar{N}}(73)+B_{\bar{N}}(-N+50)+B_{\bar{N}}(N+40) = 73+0+39 = 112 \\
&(N \geq 73)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+71) &= B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+68)) \\
&= B_{\bar{N}}(2N+71-112)+B_{\bar{N}}(2N+71-(2N-3))+B_{\bar{N}}(2N+71-(3N+20)) \\
&= B_{\bar{N}}(2N-41)+B_{\bar{N}}(74)+B_{\bar{N}}(-N+51) = 7+74+0 = 81 \\
&(N \geq 108)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+72) &= B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+69)) \\
&= B_{\bar{N}}(2N+72-81)+B_{\bar{N}}(2N+72-112)+B_{\bar{N}}(2N+72-(2N-3)) \\
&= B_{\bar{N}}(2N-9)+B_{\bar{N}}(2N-40)+B_{\bar{N}}(75) = (N-7)+\left(\frac{16N}{7}+\frac{227}{7}\right)+75 = \frac{23N}{7}+\frac{703}{7} \\
&(N \geq 107)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+73) &= B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+70)) \\
&= B_{\bar{N}}\left(2N+73-\left(\frac{23N}{7}+\frac{703}{7}\right)\right)+B_{\bar{N}}(2N+73-81)+B_{\bar{N}}(2N+73-112) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}-\frac{192}{7}\right)+B_{\bar{N}}(2N-8)+B_{\bar{N}}(2N-39) = 0+(2N-7)+\left(\frac{15N}{7}-\frac{93}{7}\right) = \frac{29N}{7}-\frac{142}{7} \\
&(N \geq 106)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+74) &= B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+71)) \\
&= B_{\bar{N}}\left(2N+74-\left(\frac{29N}{7}-\frac{142}{7}\right)\right)+B_{\bar{N}}\left(2N+74-\left(\frac{23N}{7}+\frac{703}{7}\right)\right)+B_{\bar{N}}(2N+74-81) \\
&= B_{\bar{N}}\left(-\frac{15N}{7}+\frac{660}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}-\frac{185}{7}\right)+B_{\bar{N}}(2N-7) = 0+0+(2N-5) = 2N-5 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+75) &= B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+72)) \\
&= B_{\bar{N}}(2N+75-(2N-5))+B_{\bar{N}}\left(2N+75-\left(\frac{29N}{7}-\frac{142}{7}\right)\right)+B_{\bar{N}}\left(2N+75-\left(\frac{23N}{7}+\frac{703}{7}\right)\right) \\
&= B_{\bar{N}}(80)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{667}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}-\frac{178}{7}\right)=80+0+0=80 \\
&(N \geq 80)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+76) &= B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+73)) \\
&= B_{\bar{N}}(2N+76-80)+B_{\bar{N}}(2N+76-(2N-5))+B_{\bar{N}}\left(2N+76-\left(\frac{29N}{7}-\frac{142}{7}\right)\right) \\
&= B_{\bar{N}}(2N-4)+B_{\bar{N}}(81)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{674}{7}\right)=\left(\frac{15N}{7}-\frac{58}{7}\right)+81+0=\frac{15N}{7}+\frac{509}{7} \\
&(N \geq 81)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+77) &= B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+74)) \\
&= B_{\bar{N}}\left(2N+77-\left(\frac{15N}{7}+\frac{509}{7}\right)\right)+B_{\bar{N}}(2N+77-80)+B_{\bar{N}}(2N+77-(2N-5)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{30}{7}\right)+B_{\bar{N}}(2N-3)+B_{\bar{N}}(82)=0+(N-2)+82=N+80 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+78) &= B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+75)) \\
&= B_{\bar{N}}(2N+78-(N+80))+B_{\bar{N}}\left(2N+78-\left(\frac{15N}{7}+\frac{509}{7}\right)\right)+B_{\bar{N}}(2N+78-80) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{37}{7}\right)+B_{\bar{N}}(2N-2)=(N-2)+0+N=2N-2 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+79) &= B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+76)) \\
&= B_{\bar{N}}(2N+79-(2N-2))+B_{\bar{N}}(2N+79-(N+80))+B_{\bar{N}}\left(2N+79-\left(\frac{15N}{7}+\frac{509}{7}\right)\right) \\
&= B_{\bar{N}}(81)+B_{\bar{N}}(N-1)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{44}{7}\right) = 81+(N-1)+0 = N+80 \\
&(N \geq 81)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+80) &= B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+77)) \\
&= B_{\bar{N}}(2N+80-(N+80))+B_{\bar{N}}(2N+80-(2N-2))+B_{\bar{N}}(2N+80-(N+80)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(82)+B_{\bar{N}}(N) = N+82+N = 2N+82 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+81) &= B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+78)) \\
&= B_{\bar{N}}(2N+81-(2N+82))+B_{\bar{N}}(2N+81-(N+80))+B_{\bar{N}}(2N+81-(2N-2)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N+1)+B_{\bar{N}}(83) = 0+6+83 = 89 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+82) &= B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+79)) \\
&= B_{\bar{N}}(2N+82-89)+B_{\bar{N}}(2N+82-(2N+82))+B_{\bar{N}}(2N+82-(N+80)) \\
&= B_{\bar{N}}(2N-7)+B_{\bar{N}}(0)+B_{\bar{N}}(N+2) = (2N-5)+0+(N+1) = 3N-4 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+83) &= B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+82))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+80)) \\
&= B_{\bar{N}}(2N+83-(3N-4))+B_{\bar{N}}(2N+83-89)+B_{\bar{N}}(2N+83-(2N+82)) \\
&= B_{\bar{N}}(-N+87)+B_{\bar{N}}(2N-6)+B_{\bar{N}}(1) = 0+7+1 = 8 \\
&(N \geq 87)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+84) &= B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+83)) + B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+82)) + B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+81)) \\
&= B_{\bar{N}}(2N+84-8) + B_{\bar{N}}(2N+84-(3N-4)) + B_{\bar{N}}(2N+84-89) \\
&= B_{\bar{N}}(2N+76) + B_{\bar{N}}(-N+88) + B_{\bar{N}}(2N-5) = \left(\frac{15N}{7}+\frac{509}{7}\right) + 0 + \left(\frac{16N}{7}+\frac{297}{7}\right) = \frac{31N}{7}+\frac{806}{7} \\
&(N \geq 88)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+85) &= B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+84)) + B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+83)) + B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+82)) \\
&= B_{\bar{N}}\left(2N+85-\left(\frac{31N}{7}+\frac{806}{7}\right)\right) + B_{\bar{N}}(2N+85-8) + B_{\bar{N}}(2N+85-(3N-4)) \\
&= B_{\bar{N}}\left(-\frac{17N}{7}-\frac{211}{7}\right) + B_{\bar{N}}(2N+77) + B_{\bar{N}}(-N+89) = 0 + (N+80) + 0 = N+80 \\
&(N \geq 89)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+86) &= B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+85)) + B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+84)) + B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+83)) \\
&= B_{\bar{N}}(2N+86-(N+80)) + B_{\bar{N}}\left(2N+86-\left(\frac{31N}{7}+\frac{806}{7}\right)\right) + B_{\bar{N}}(2N+86-8) \\
&= B_{\bar{N}}(N+6) + B_{\bar{N}}\left(-\frac{17N}{7}-\frac{204}{7}\right) + B_{\bar{N}}(2N+78) = (N+4) + 0 + (2N-2) = 3N+2 \\
&(N \geq 63)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+87) &= B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+86)) + B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+85)) + B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+84)) \\
&= B_{\bar{N}}(2N+87-(3N+2)) + B_{\bar{N}}(2N+87-(N+80)) + B_{\bar{N}}\left(2N+87-\left(\frac{31N}{7}+\frac{806}{7}\right)\right) \\
&= B_{\bar{N}}(-N+85) + B_{\bar{N}}(N+7) + B_{\bar{N}}\left(-\frac{17N}{7}-\frac{197}{7}\right) = 0 + (N+5) + 0 = N+5 \\
&(N \geq 85)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+88) &= B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+86))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+85)) \\
&= B_{\bar{N}}(2N+88-(N+5))+B_{\bar{N}}(2N+88-(3N+2))+B_{\bar{N}}(2N+88-(N+80)) \\
&= B_{\bar{N}}(N+83)+B_{\bar{N}}(-N+86)+B_{\bar{N}}(N+8) = (N-2)+0+(N+6) = 2N+4 \\
&(N \geq 86)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+89) &= B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+86)) \\
&= B_{\bar{N}}(2N+89-(2N+4))+B_{\bar{N}}(2N+89-(N+5))+B_{\bar{N}}(2N+89-(3N+2)) \\
&= B_{\bar{N}}(85)+B_{\bar{N}}(N+84)+B_{\bar{N}}(-N+87) = 85+86+0 = 171 \\
&(N \geq 87)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+90) &= B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+87)) \\
&= B_{\bar{N}}(2N+90-171)+B_{\bar{N}}(2N+90-(2N+4))+B_{\bar{N}}(2N+90-(N+5)) \\
&= B_{\bar{N}}(2N-81)+B_{\bar{N}}(86)+B_{\bar{N}}(N+85) = \left(\frac{15N}{7}-\frac{135}{7}\right)+86+(N+86) = \frac{22N}{7}+\frac{1069}{7} \\
&(N \geq 148)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+91) &= B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+88)) \\
&= B_{\bar{N}}\left(2N+91-\left(\frac{22N}{7}+\frac{1069}{7}\right)\right)+B_{\bar{N}}(2N+91-171)+B_{\bar{N}}(2N+91-(2N+4)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}-\frac{432}{7}\right)+B_{\bar{N}}(2N-80)+B_{\bar{N}}(87) = 0+(N-2)+87 = N+85 \\
&(N \geq 147)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+92) &= B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+89)) \\
&= B_{\bar{N}}(2N+92-(N+85))+B_{\bar{N}}\left(2N+92-\left(\frac{22N}{7}+\frac{1069}{7}\right)\right)+B_{\bar{N}}(2N+92-171) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}\left(-\frac{8N}{7}-\frac{425}{7}\right)+B_{\bar{N}}(2N-79) = (N+5)+0+(N-77) = 2N-72 \\
&(N \geq 146)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+93) &= B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+90)) \\
&= B_{\bar{N}}(2N+93-(2N-72))+B_{\bar{N}}(2N+93-(N+85))+B_{\bar{N}}\left(2N+93-\left(\frac{22N}{7}+\frac{1069}{7}\right)\right) \\
&= B_{\bar{N}}(165)+B_{\bar{N}}(N+8)+B_{\bar{N}}\left(-\frac{8N}{7}-\frac{418}{7}\right) = 165+(N+6)+0 = N+171 \\
&(N \geq 165)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+94) &= B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+91)) \\
&= B_{\bar{N}}(2N+94-(N+171))+B_{\bar{N}}(2N+94-(2N-72))+B_{\bar{N}}(2N+94-(N+85)) \\
&= B_{\bar{N}}(N-77)+B_{\bar{N}}(166)+B_{\bar{N}}(N+9) = (N-77)+166+12 = N+101 \\
&(N \geq 166)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+95) &= B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+92)) \\
&= B_{\bar{N}}(2N+95-(N+101))+B_{\bar{N}}(2N+95-(N+171))+B_{\bar{N}}(2N+95-(2N-72)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(N-76)+B_{\bar{N}}(167) = (N-6)+(N-76)+167 = 2N+85 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+96) &= B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+93)) \\
&= B_{\bar{N}}(2N+96-(2N+85))+B_{\bar{N}}(2N+96-(N+101))+B_{\bar{N}}(2N+96-(N+171)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N-5)+B_{\bar{N}}(N-75) = 11+(N-5)+(N-75) = 2N-69 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+97) &= B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+94)) \\
&= B_{\bar{N}}(2N+97-(2N-69))+B_{\bar{N}}(2N+97-(2N+85))+B_{\bar{N}}(2N+97-(N+101)) \\
&= B_{\bar{N}}(166)+B_{\bar{N}}(12)+B_{\bar{N}}(N-4) = 166+12+(N-4) = N+174 \\
&(N \geq 166)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+98) &= B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+95)) \\
&= B_{\bar{N}}(2N+98-(N+174))+B_{\bar{N}}(2N+98-(2N-69))+B_{\bar{N}}(2N+98-(2N+85)) \\
&= B_{\bar{N}}(N-76)+B_{\bar{N}}(167)+B_{\bar{N}}(13) = (N-76)+167+13 = N+104 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+99) &= B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+96)) \\
&= B_{\bar{N}}(2N+99-(N+104))+B_{\bar{N}}(2N+99-(N+174))+B_{\bar{N}}(2N+99-(2N-69)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(N-75)+B_{\bar{N}}(168) = (N-5)+(N-75)+168 = 2N+88 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+100) &= B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+97)) \\
&= B_{\bar{N}}(2N+100-(2N+88))+B_{\bar{N}}(2N+100-(N+104))+B_{\bar{N}}(2N+100-(N+174)) \\
&= B_{\bar{N}}(12)+B_{\bar{N}}(N-4)+B_{\bar{N}}(N-74) = 12+(N-4)+(N-74) = 2N-66 \\
&(N \geq 75)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+101) &= B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+98)) \\
&= B_{\bar{N}}(2N+101-(2N-66))+B_{\bar{N}}(2N+101-(2N+88))+B_{\bar{N}}(2N+101-(N+104)) \\
&= B_{\bar{N}}(167)+B_{\bar{N}}(13)+B_{\bar{N}}(N-3) = 167+13+(N-3) = N+177 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+102) &= B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+99)) \\
&= B_{\bar{N}}(2N+102-(N+177))+B_{\bar{N}}(2N+102-(2N-66))+B_{\bar{N}}(2N+102-(2N+88)) \\
&= B_{\bar{N}}(N-75)+B_{\bar{N}}(168)+B_{\bar{N}}(14) = (N-75)+168+14 = N+107 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+103) &= B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+100)) \\
&= B_{\bar{N}}(2N+103-(N+107))+B_{\bar{N}}(2N+103-(N+177))+B_{\bar{N}}(2N+103-(2N-66)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N-74)+B_{\bar{N}}(169) = (N-4)+(N-74)+169 = 2N+91 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+104) &= B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+101)) \\
&= B_{\bar{N}}(2N+104-(2N+91))+B_{\bar{N}}(2N+104-(N+107))+B_{\bar{N}}(2N+104-(N+177)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N-73) = 13+(N-3)+(N-73) = 2N-63 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+105) &= B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+102)) \\
&= B_{\bar{N}}(2N+105-(2N-63))+B_{\bar{N}}(2N+105-(2N+91))+B_{\bar{N}}(2N+105-(N+107)) \\
&= B_{\bar{N}}(168)+B_{\bar{N}}(14)+B_{\bar{N}}(N-2) = 168+14+(N-2) = N+180 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+106) &= B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+103)) \\
&= B_{\bar{N}}(2N+106-(N+180))+B_{\bar{N}}(2N+106-(2N-63))+B_{\bar{N}}(2N+106-(2N+91)) \\
&= B_{\bar{N}}(N-74)+B_{\bar{N}}(169)+B_{\bar{N}}(15) = (N-74)+169+15 = N+110 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+107) &= B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+104)) \\
&= B_{\bar{N}}(2N+107-(N+110))+B_{\bar{N}}(2N+107-(N+180))+B_{\bar{N}}(2N+107-(2N-63)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N-73)+B_{\bar{N}}(170) = (N-3)+(N-73)+170 = 2N+94 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+108) &= B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+105)) \\
&= B_{\bar{N}}(2N+108-(2N+94))+B_{\bar{N}}(2N+108-(N+110))+B_{\bar{N}}(2N+108-(N+180)) \\
&= B_{\bar{N}}(14)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N-72) = 14+(N-2)+(N-72) = 2N-60 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+109) &= B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+106)) \\
&= B_{\bar{N}}(2N+109-(2N-60))+B_{\bar{N}}(2N+109-(2N+94))+B_{\bar{N}}(2N+109-(N+110)) \\
&= B_{\bar{N}}(169)+B_{\bar{N}}(15)+B_{\bar{N}}(N-1) = 169+15+(N-1) = N+183 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+110) &= B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+107)) \\
&= B_{\bar{N}}(2N+110-(N+183))+B_{\bar{N}}(2N+110-(2N-60))+B_{\bar{N}}(2N+110-(2N+94)) \\
&= B_{\bar{N}}(N-73)+B_{\bar{N}}(170)+B_{\bar{N}}(16) = (N-73)+170+16 = N+113 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+111) &= B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+108)) \\
&= B_{\bar{N}}(2N+111-(N+113))+B_{\bar{N}}(2N+111-(N+183))+B_{\bar{N}}(2N+111-(2N-60)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N-72)+B_{\bar{N}}(171)=(N-2)+(N-72)+171=2N+97 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+112) &= B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+109)) \\
&= B_{\bar{N}}(2N+112-(2N+97))+B_{\bar{N}}(2N+112-(N+113))+B_{\bar{N}}(2N+112-(N+183)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N-71)=15+(N-1)+(N-71)=2N-57 \\
&(N \geq 72)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+113) &= B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+110)) \\
&= B_{\bar{N}}(2N+113-(2N-57))+B_{\bar{N}}(2N+113-(2N+97))+B_{\bar{N}}(2N+113-(N+113)) \\
&= B_{\bar{N}}(170)+B_{\bar{N}}(16)+B_{\bar{N}}(N)=170+16+N=N+186 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+114) &= B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+111)) \\
&= B_{\bar{N}}(2N+114-(N+186))+B_{\bar{N}}(2N+114-(2N-57))+B_{\bar{N}}(2N+114-(2N+97)) \\
&= B_{\bar{N}}(N-72)+B_{\bar{N}}(171)+B_{\bar{N}}(17)=(N-72)+171+17=N+116 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+115) &= B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+112)) \\
&= B_{\bar{N}}(2N+115-(N+116))+B_{\bar{N}}(2N+115-(N+186))+B_{\bar{N}}(2N+115-(2N-57)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(N-71)+B_{\bar{N}}(172)=(N-1)+(N-71)+172=2N+100 \\
&(N \geq 172)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+116) &= B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+113)) \\
&= B_{\bar{N}}(2N+116-(2N+100))+B_{\bar{N}}(2N+116-(N+116))+B_{\bar{N}}(2N+116-(N+186)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N)+B_{\bar{N}}(N-70) = 16+N+(N-70) = 2N-54 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+117) &= B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+114)) \\
&= B_{\bar{N}}(2N+117-(2N-54))+B_{\bar{N}}(2N+117-(2N+100))+B_{\bar{N}}(2N+117-(N+116)) \\
&= B_{\bar{N}}(171)+B_{\bar{N}}(17)+B_{\bar{N}}(N+1) = 171+17+6 = 194 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+118) &= B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+115)) \\
&= B_{\bar{N}}(2N+118-194)+B_{\bar{N}}(2N+118-(2N-54))+B_{\bar{N}}(2N+118-(2N+100)) \\
&= B_{\bar{N}}(2N-76)+B_{\bar{N}}(172)+B_{\bar{N}}(18) = 7+172+18 = 197 \\
&(N \geq 172)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+119) &= B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+116)) \\
&= B_{\bar{N}}(2N+119-197)+B_{\bar{N}}(2N+119-194)+B_{\bar{N}}(2N+119-(2N-54)) \\
&= B_{\bar{N}}(2N-78)+B_{\bar{N}}(2N-75)+B_{\bar{N}}(173) = (2N-77)+\left(\frac{16N}{7}+\frac{157}{7}\right)+173 = \frac{30N}{7}+\frac{829}{7} \\
&(N \geq 173)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+120) &= B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+119))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+117)) \\
&= B_{\bar{N}}\left(2N+120-\left(\frac{30N}{7}+\frac{829}{7}\right)\right)+B_{\bar{N}}(2N+120-197)+B_{\bar{N}}(2N+120-194) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}+\frac{11}{7}\right)+B_{\bar{N}}(2N-77)+B_{\bar{N}}(2N-74) = 0+(2N-75)+\left(\frac{15N}{7}-\frac{128}{7}\right) = \frac{29N}{7}-\frac{653}{7} \\
&(N \geq 144)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+121) &= B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+120)) + B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+119)) + B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+118)) \\
&= B_{\bar{N}}\left(2N+121-\left(\frac{29N}{7}-\frac{653}{7}\right)\right) + B_{\bar{N}}\left(2N+121-\left(\frac{30N}{7}+\frac{829}{7}\right)\right) + B_{\bar{N}}(2N+121-197) \\
&= B_{\bar{N}}\left(-\frac{15N}{7}+\frac{1500}{7}\right) + B_{\bar{N}}\left(-\frac{16N}{7}+\frac{18}{7}\right) + B_{\bar{N}}(2N-76) = 0+0+7 = 7 \\
&(N \geq 143)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+122) &= B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+121)) + B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+120)) + B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+119)) \\
&= B_{\bar{N}}(2N+122-7) + B_{\bar{N}}\left(2N+122-\left(\frac{29N}{7}-\frac{653}{7}\right)\right) + B_{\bar{N}}\left(2N+122-\left(\frac{30N}{7}+\frac{829}{7}\right)\right) \\
&= B_{\bar{N}}(2N+115) + B_{\bar{N}}\left(-\frac{15N}{7}+\frac{1507}{7}\right) + B_{\bar{N}}\left(-\frac{16N}{7}+\frac{25}{7}\right) = (2N+100)+0+0 = 2N+100 \\
&(N \geq 101)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+123) &= B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+122)) + B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+121)) + B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+120)) \\
&= B_{\bar{N}}(2N+123-(2N+100)) + B_{\bar{N}}(2N+123-7) + B_{\bar{N}}\left(2N+123-\left(\frac{29N}{7}-\frac{653}{7}\right)\right) \\
&= B_{\bar{N}}(23) + B_{\bar{N}}(2N+116) + B_{\bar{N}}\left(-\frac{15N}{7}+\frac{1514}{7}\right) = 23+(2N-54)+0 = 2N-31 \\
&(N \geq 101)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+124) &= B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+123)) + B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+122)) + B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+121)) \\
&= B_{\bar{N}}(2N+124-(2N-31)) + B_{\bar{N}}(2N+124-(2N+100)) + B_{\bar{N}}(2N+124-7) \\
&= B_{\bar{N}}(155) + B_{\bar{N}}(24) + B_{\bar{N}}(2N+117) = 155+24+194 = 373 \\
&(N \geq 155)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+125) &= B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+124))+B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+123))+B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+122)) \\
&= B_{\bar{N}}(2N+125-373)+B_{\bar{N}}(2N+125-(2N-31))+B_{\bar{N}}(2N+125-(2N+100)) \\
&= B_{\bar{N}}(2N-248)+B_{\bar{N}}(156)+B_{\bar{N}}(25)=(N-2)+156+25=N+179 \\
&(N \geq 315)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+126) &= B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+125))+B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+124))+B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+123)) \\
&= B_{\bar{N}}(2N+126-(N+179))+B_{\bar{N}}(2N+126-373)+B_{\bar{N}}(2N+126-(2N-31)) \\
&= B_{\bar{N}}(N-53)+B_{\bar{N}}(2N-247)+B_{\bar{N}}(157)=(N-53)+(N-245)+157=2N-141 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+127) &= B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+126))+B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+125))+B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+124)) \\
&= B_{\bar{N}}(2N+127-(2N-141))+B_{\bar{N}}(2N+127-(N+179))+B_{\bar{N}}(2N+127-373) \\
&= B_{\bar{N}}(268)+B_{\bar{N}}(N-52)+B_{\bar{N}}(2N-246)=268+(N-52)+(2N-245)=3N-29 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+128) &= B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+127))+B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+126))+B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+125)) \\
&= B_{\bar{N}}(2N+128-(3N-29))+B_{\bar{N}}(2N+128-(2N-141))+B_{\bar{N}}(2N+128-(N+179)) \\
&= B_{\bar{N}}(-N+157)+B_{\bar{N}}(269)+B_{\bar{N}}(N-51)=0+269+(N-51)=N+218 \\
&(N \geq 269)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+129) &= B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+128))+B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+127))+B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+126)) \\
&= B_{\bar{N}}(2N+129-(N+218))+B_{\bar{N}}(2N+129-(3N-29))+B_{\bar{N}}(2N+129-(2N-141)) \\
&= B_{\bar{N}}(N-89)+B_{\bar{N}}(-N+158)+B_{\bar{N}}(270)=(N-89)+0+270=N+181 \\
&(N \geq 270)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+130) &= B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+128))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+127)) \\
&= B_{\bar{N}}(2N+130-(N+181))+B_{\bar{N}}(2N+130-(N+218))+B_{\bar{N}}(2N+130-(3N-29)) \\
&= B_{\bar{N}}(N-51)+B_{\bar{N}}(N-88)+B_{\bar{N}}(-N+159) = (N-51)+(N-88)+0 = 2N-139 \\
&(N \geq 159)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+131) &= B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+128)) \\
&= B_{\bar{N}}(2N+131-(2N-139))+B_{\bar{N}}(2N+131-(N+181))+B_{\bar{N}}(2N+131-(N+218)) \\
&= B_{\bar{N}}(270)+B_{\bar{N}}(N-50)+B_{\bar{N}}(N-87) = 270+(N-50)+(N-87) = 2N+133 \\
&(N \geq 270)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+132) &= B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+129)) \\
&= B_{\bar{N}}(2N+132-(2N+133))+B_{\bar{N}}(2N+132-(2N-139))+B_{\bar{N}}(2N+132-(N+181)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(271)+B_{\bar{N}}(N-49) = 0+271+(N-49) = N+222 \\
&(N \geq 271)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+133) &= B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+130)) \\
&= B_{\bar{N}}(2N+133-(N+222))+B_{\bar{N}}(2N+133-(2N+133))+B_{\bar{N}}(2N+133-(2N-139)) \\
&= B_{\bar{N}}(N-89)+B_{\bar{N}}(0)+B_{\bar{N}}(272) = (N-89)+0+272 = N+183 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+134) &= B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+131)) \\
&= B_{\bar{N}}(2N+134-(N+183))+B_{\bar{N}}(2N+134-(N+222))+B_{\bar{N}}(2N+134-(2N+133)) \\
&= B_{\bar{N}}(N-49)+B_{\bar{N}}(N-88)+B_{\bar{N}}(1) = (N-49)+(N-88)+1 = 2N-136 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+135) &= B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+132)) \\
&= B_{\bar{N}}(2N+135-(2N-136))+B_{\bar{N}}(2N+135-(N+183))+B_{\bar{N}}(2N+135-(N+222)) \\
&= B_{\bar{N}}(271)+B_{\bar{N}}(N-48)+B_{\bar{N}}(N-87) = 271+(N-48)+(N-87) = 2N+136 \\
&(N \geq 271)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+136) &= B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+133)) \\
&= B_{\bar{N}}(2N+136-(2N+136))+B_{\bar{N}}(2N+136-(2N-136))+B_{\bar{N}}(2N+136-(N+183)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(272)+B_{\bar{N}}(N-47) = 0+272+(N-47) = N+225 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+137) &= B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+134)) \\
&= B_{\bar{N}}(2N+137-(N+225))+B_{\bar{N}}(2N+137-(2N+136))+B_{\bar{N}}(2N+137-(2N-136)) \\
&= B_{\bar{N}}(N-88)+B_{\bar{N}}(1)+B_{\bar{N}}(273) = (N-88)+1+273 = N+186 \\
&(N \geq 273)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+138) &= B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+135)) \\
&= B_{\bar{N}}(2N+138-(N+186))+B_{\bar{N}}(2N+138-(N+225))+B_{\bar{N}}(2N+138-(2N+136)) \\
&= B_{\bar{N}}(N-48)+B_{\bar{N}}(N-87)+B_{\bar{N}}(2) = (N-48)+(N-87)+2 = 2N-133 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+139) &= B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+136)) \\
&= B_{\bar{N}}(2N+139-(2N-133))+B_{\bar{N}}(2N+139-(N+186))+B_{\bar{N}}(2N+139-(N+225)) \\
&= B_{\bar{N}}(272)+B_{\bar{N}}(N-47)+B_{\bar{N}}(N-86) = 272+(N-47)+(N-86) = 2N+139 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+140) &= B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+137)) \\
&= B_{\bar{N}}(2N+140-(2N+139))+B_{\bar{N}}(2N+140-(2N-133))+B_{\bar{N}}(2N+140-(N+186)) \\
&= B_{\bar{N}}(1)+B_{\bar{N}}(273)+B_{\bar{N}}(N-46) = 1+273+(N-46) = N+228 \\
&(N \geq 273)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+141) &= B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+138)) \\
&= B_{\bar{N}}(2N+141-(N+228))+B_{\bar{N}}(2N+141-(2N+139))+B_{\bar{N}}(2N+141-(2N-133)) \\
&= B_{\bar{N}}(N-87)+B_{\bar{N}}(2)+B_{\bar{N}}(274) = (N-87)+2+274 = N+189 \\
&(N \geq 274)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+142) &= B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+139)) \\
&= B_{\bar{N}}(2N+142-(N+189))+B_{\bar{N}}(2N+142-(N+228))+B_{\bar{N}}(2N+142-(2N+139)) \\
&= B_{\bar{N}}(N-47)+B_{\bar{N}}(N-86)+B_{\bar{N}}(3) = (N-47)+(N-86)+3 = 2N-130 \\
&(N \geq 134)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+143) &= B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+140)) \\
&= B_{\bar{N}}(2N+143-(2N-130))+B_{\bar{N}}(2N+143-(N+189))+B_{\bar{N}}(2N+143-(N+228)) \\
&= B_{\bar{N}}(273)+B_{\bar{N}}(N-46)+B_{\bar{N}}(N-85) = 273+(N-46)+(N-85) = 2N+142 \\
&(N \geq 273)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+144) &= B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+141)) \\
&= B_{\bar{N}}(2N+144-(2N+142))+B_{\bar{N}}(2N+144-(2N-130))+B_{\bar{N}}(2N+144-(N+189)) \\
&= B_{\bar{N}}(2)+B_{\bar{N}}(274)+B_{\bar{N}}(N-45) = 2+274+(N-45) = N+231 \\
&(N \geq 274)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+145) &= B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+142)) \\
&= B_{\bar{N}}(2N+145-(N+231))+B_{\bar{N}}(2N+145-(2N+142))+B_{\bar{N}}(2N+145-(2N-130)) \\
&= B_{\bar{N}}(N-86)+B_{\bar{N}}(3)+B_{\bar{N}}(275) = (N-86)+3+275 = N+192 \\
&(N \geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+146) &= B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+143)) \\
&= B_{\bar{N}}(2N+146-(N+192))+B_{\bar{N}}(2N+146-(N+231))+B_{\bar{N}}(2N+146-(2N+142)) \\
&= B_{\bar{N}}(N-46)+B_{\bar{N}}(N-85)+B_{\bar{N}}(4) = (N-46)+(N-85)+4 = 2N-127 \\
&(N \geq 220)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+147) &= B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+144)) \\
&= B_{\bar{N}}(2N+147-(2N-127))+B_{\bar{N}}(2N+147-(N+192))+B_{\bar{N}}(2N+147-(N+231)) \\
&= B_{\bar{N}}(274)+B_{\bar{N}}(N-45)+B_{\bar{N}}(N-84) = 274+(N-45)+(N-84) = 2N+145 \\
&(N \geq 274)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+148) &= B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+145)) \\
&= B_{\bar{N}}(2N+148-(2N+145))+B_{\bar{N}}(2N+148-(2N-127))+B_{\bar{N}}(2N+148-(N+192)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(275)+B_{\bar{N}}(N-44) = 3+275+(N-44) = N+234 \\
&(N \geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+149) &= B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+146)) \\
&= B_{\bar{N}}(2N+149-(N+234))+B_{\bar{N}}(2N+149-(2N+145))+B_{\bar{N}}(2N+149-(2N-127)) \\
&= B_{\bar{N}}(N-85)+B_{\bar{N}}(4)+B_{\bar{N}}(276) = (N-85)+4+276 = N+195 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+150) &= B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+147)) \\
&= B_{\bar{N}}(2N+150-(N+195))+B_{\bar{N}}(2N+150-(N+234))+B_{\bar{N}}(2N+150-(2N+145)) \\
&= B_{\bar{N}}(N-45)+B_{\bar{N}}(N-84)+B_{\bar{N}}(5)=(N-45)+(N-84)+5=2N-124 \\
&(N \geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+151) &= B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+148)) \\
&= B_{\bar{N}}(2N+151-(2N-124))+B_{\bar{N}}(2N+151-(N+195))+B_{\bar{N}}(2N+151-(N+234)) \\
&= B_{\bar{N}}(275)+B_{\bar{N}}(N-44)+B_{\bar{N}}(N-83)=275+(N-44)+(N-83)=2N+148 \\
&(N \geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+152) &= B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+149)) \\
&= B_{\bar{N}}(2N+152-(2N+148))+B_{\bar{N}}(2N+152-(2N-124))+B_{\bar{N}}(2N+152-(N+195)) \\
&= B_{\bar{N}}(4)+B_{\bar{N}}(276)+B_{\bar{N}}(N-43)=4+276+(N-43)=N+237 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+153) &= B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+150)) \\
&= B_{\bar{N}}(2N+153-(N+237))+B_{\bar{N}}(2N+153-(2N+148))+B_{\bar{N}}(2N+153-(2N-124)) \\
&= B_{\bar{N}}(N-84)+B_{\bar{N}}(5)+B_{\bar{N}}(277)=(N-84)+5+277=N+198 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+154) &= B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+151)) \\
&= B_{\bar{N}}(2N+154-(N+198))+B_{\bar{N}}(2N+154-(N+237))+B_{\bar{N}}(2N+154-(2N+148)) \\
&= B_{\bar{N}}(N-44)+B_{\bar{N}}(N-83)+B_{\bar{N}}(6)=(N-44)+(N-83)+6=2N-121 \\
&(N \geq 232)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+155) &= B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+152)) \\
&= B_{\bar{N}}(2N+155-(2N-121))+B_{\bar{N}}(2N+155-(N+198))+B_{\bar{N}}(2N+155-(N+237)) \\
&= B_{\bar{N}}(276)+B_{\bar{N}}(N-43)+B_{\bar{N}}(N-82) = 276+(N-43)+(N-82) = 2N+151 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+156) &= B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+153)) \\
&= B_{\bar{N}}(2N+156-(2N+151))+B_{\bar{N}}(2N+156-(2N-121))+B_{\bar{N}}(2N+156-(N+198)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(277)+B_{\bar{N}}(N-42) = 5+277+(N-42) = N+240 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+157) &= B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+154)) \\
&= B_{\bar{N}}(2N+157-(N+240))+B_{\bar{N}}(2N+157-(2N+151))+B_{\bar{N}}(2N+157-(2N-121)) \\
&= B_{\bar{N}}(N-83)+B_{\bar{N}}(6)+B_{\bar{N}}(278) = (N-83)+6+278 = N+201 \\
&(N \geq 278)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+158) &= B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+155)) \\
&= B_{\bar{N}}(2N+158-(N+201))+B_{\bar{N}}(2N+158-(N+240))+B_{\bar{N}}(2N+158-(2N+151)) \\
&= B_{\bar{N}}(N-43)+B_{\bar{N}}(N-82)+B_{\bar{N}}(7) = (N-43)+(N-82)+7 = 2N-118 \\
&(N \geq 173)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+159) &= B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+156)) \\
&= B_{\bar{N}}(2N+159-(2N-118))+B_{\bar{N}}(2N+159-(N+201))+B_{\bar{N}}(2N+159-(N+240)) \\
&= B_{\bar{N}}(277)+B_{\bar{N}}(N-42)+B_{\bar{N}}(N-81) = 277+(N-42)+(N-81) = 2N+154 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+160) &= B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+159))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+157)) \\
&= B_{\bar{N}}(2N+160-(2N+154))+B_{\bar{N}}(2N+160-(2N-118))+B_{\bar{N}}(2N+160-(N+201)) \\
&= B_{\bar{N}}(6)+B_{\bar{N}}(278)+B_{\bar{N}}(N-41) = 6+278+(N-41) = N+243 \\
&(N \geq 278)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+161) &= B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+160))+B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+159))+B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+158)) \\
&= B_{\bar{N}}(2N+161-(N+243))+B_{\bar{N}}(2N+161-(2N+154))+B_{\bar{N}}(2N+161-(2N-118)) \\
&= B_{\bar{N}}(N-82)+B_{\bar{N}}(7)+B_{\bar{N}}(279) = (N-82)+7+279 = N+204 \\
&(N \geq 279)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+162) &= B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+161))+B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+160))+B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+159)) \\
&= B_{\bar{N}}(2N+162-(N+204))+B_{\bar{N}}(2N+162-(N+243))+B_{\bar{N}}(2N+162-(2N+154)) \\
&= B_{\bar{N}}(N-42)+B_{\bar{N}}(N-81)+B_{\bar{N}}(8) = (N-42)+(N-81)+8 = 2N-115 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+163) &= B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+162))+B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+161))+B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+160)) \\
&= B_{\bar{N}}(2N+163-(2N-115))+B_{\bar{N}}(2N+163-(N+204))+B_{\bar{N}}(2N+163-(N+243)) \\
&= B_{\bar{N}}(278)+B_{\bar{N}}(N-41)+B_{\bar{N}}(N-80) = 278+(N-41)+(N-80) = 2N+157 \\
&(N \geq 278)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+164) &= B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+163))+B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+162))+B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+161)) \\
&= B_{\bar{N}}(2N+164-(2N+157))+B_{\bar{N}}(2N+164-(2N-115))+B_{\bar{N}}(2N+164-(N+204)) \\
&= B_{\bar{N}}(7)+B_{\bar{N}}(279)+B_{\bar{N}}(N-40) = 7+279+(N-40) = N+246 \\
&(N \geq 279)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+165) &= B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+164)) + B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+163)) + B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+162)) \\
&= B_{\bar{N}}(2N+165-(N+246)) + B_{\bar{N}}(2N+165-(2N+157)) + B_{\bar{N}}(2N+165-(2N-115)) \\
&= B_{\bar{N}}(N-81) + B_{\bar{N}}(8) + B_{\bar{N}}(280) = (N-81)+8+280 = N+207 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+166) &= B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+165)) + B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+164)) + B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+163)) \\
&= B_{\bar{N}}(2N+166-(N+207)) + B_{\bar{N}}(2N+166-(N+246)) + B_{\bar{N}}(2N+166-(2N+157)) \\
&= B_{\bar{N}}(N-41) + B_{\bar{N}}(N-80) + B_{\bar{N}}(9) = (N-41)+(N-80)+9 = 2N-112 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+167) &= B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+166)) + B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+165)) + B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+164)) \\
&= B_{\bar{N}}(2N+167-(2N-112)) + B_{\bar{N}}(2N+167-(N+207)) + B_{\bar{N}}(2N+167-(N+246)) \\
&= B_{\bar{N}}(279) + B_{\bar{N}}(N-40) + B_{\bar{N}}(N-79) = 279+(N-40)+(N-79) = 2N+160 \\
&(N \geq 279)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+168) &= B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+167)) + B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+166)) + B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+165)) \\
&= B_{\bar{N}}(2N+168-(2N+160)) + B_{\bar{N}}(2N+168-(2N-112)) + B_{\bar{N}}(2N+168-(N+207)) \\
&= B_{\bar{N}}(8) + B_{\bar{N}}(280) + B_{\bar{N}}(N-39) = 8+280+(N-39) = N+249 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+169) &= B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+168)) + B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+167)) + B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+166)) \\
&= B_{\bar{N}}(2N+169-(N+249)) + B_{\bar{N}}(2N+169-(2N+160)) + B_{\bar{N}}(2N+169-(2N-112)) \\
&= B_{\bar{N}}(N-80) + B_{\bar{N}}(9) + B_{\bar{N}}(281) = (N-80)+9+281 = N+210 \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+170) &= B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+169))+B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+168))+B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+167)) \\
&= B_{\bar{N}}(2N+170-(N+210))+B_{\bar{N}}(2N+170-(N+249))+B_{\bar{N}}(2N+170-(2N+160)) \\
&= B_{\bar{N}}(N-40)+B_{\bar{N}}(N-79)+B_{\bar{N}}(10)=(N-40)+(N-79)+10=2N-109 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+171) &= B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+170))+B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+169))+B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+168)) \\
&= B_{\bar{N}}(2N+171-(2N-109))+B_{\bar{N}}(2N+171-(N+210))+B_{\bar{N}}(2N+171-(N+249)) \\
&= B_{\bar{N}}(280)+B_{\bar{N}}(N-39)+B_{\bar{N}}(N-78)=280+(N-39)+(N-78)=2N+163 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+172) &= B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+171))+B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+170))+B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+169)) \\
&= B_{\bar{N}}(2N+172-(2N+163))+B_{\bar{N}}(2N+172-(2N-109))+B_{\bar{N}}(2N+172-(N+210)) \\
&= B_{\bar{N}}(9)+B_{\bar{N}}(281)+B_{\bar{N}}(N-38)=9+281+(N-38)=N+252 \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+173) &= B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+171))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+170)) \\
&= B_{\bar{N}}(2N+173-(N+252))+B_{\bar{N}}(2N+173-(2N+163))+B_{\bar{N}}(2N+173-(2N-109)) \\
&= B_{\bar{N}}(N-79)+B_{\bar{N}}(10)+B_{\bar{N}}(282)=(N-79)+10+282=N+213 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+174) &= B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+171)) \\
&= B_{\bar{N}}(2N+174-(N+213))+B_{\bar{N}}(2N+174-(N+252))+B_{\bar{N}}(2N+174-(2N+163)) \\
&= B_{\bar{N}}(N-39)+B_{\bar{N}}(N-78)+B_{\bar{N}}(11)=(N-39)+(N-78)+11=2N-106 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+175) &= B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+172)) \\
&= B_{\bar{N}}(2N+175-(2N-106))+B_{\bar{N}}(2N+175-(N+213))+B_{\bar{N}}(2N+175-(N+252)) \\
&= B_{\bar{N}}(281)+B_{\bar{N}}(N-38)+B_{\bar{N}}(N-77) = 281+(N-38)+(N-77) = 2N+166 \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+176) &= B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+173)) \\
&= B_{\bar{N}}(2N+176-(2N+166))+B_{\bar{N}}(2N+176-(2N-106))+B_{\bar{N}}(2N+176-(N+213)) \\
&= B_{\bar{N}}(10)+B_{\bar{N}}(282)+B_{\bar{N}}(N-37) = 10+282+(N-37) = N+255 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+177) &= B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+174)) \\
&= B_{\bar{N}}(2N+177-(N+255))+B_{\bar{N}}(2N+177-(2N+166))+B_{\bar{N}}(2N+177-(2N-106)) \\
&= B_{\bar{N}}(N-78)+B_{\bar{N}}(11)+B_{\bar{N}}(283) = (N-78)+11+283 = N+216 \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+178) &= B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+175)) \\
&= B_{\bar{N}}(2N+178-(N+216))+B_{\bar{N}}(2N+178-(N+255))+B_{\bar{N}}(2N+178-(2N+166)) \\
&= B_{\bar{N}}(N-38)+B_{\bar{N}}(N-77)+B_{\bar{N}}(12) = (N-38)+(N-77)+12 = 2N-103 \\
&(N \geq 140)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+179) &= B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+176)) \\
&= B_{\bar{N}}(2N+179-(2N-103))+B_{\bar{N}}(2N+179-(N+216))+B_{\bar{N}}(2N+179-(N+255)) \\
&= B_{\bar{N}}(282)+B_{\bar{N}}(N-37)+B_{\bar{N}}(N-76) = 282+(N-37)+(N-76) = 2N+169 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+180) &= B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+177)) \\
&= B_{\bar{N}}(2N+180-(2N+169))+B_{\bar{N}}(2N+180-(2N-103))+B_{\bar{N}}(2N+180-(N+216)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(283)+B_{\bar{N}}(N-36) = 11+283+(N-36) = N+258 \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+181) &= B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+178)) \\
&= B_{\bar{N}}(2N+181-(N+258))+B_{\bar{N}}(2N+181-(2N+169))+B_{\bar{N}}(2N+181-(2N-103)) \\
&= B_{\bar{N}}(N-77)+B_{\bar{N}}(12)+B_{\bar{N}}(284) = (N-77)+12+284 = N+219 \\
&(N \geq 284)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+182) &= B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+179)) \\
&= B_{\bar{N}}(2N+182-(N+219))+B_{\bar{N}}(2N+182-(N+258))+B_{\bar{N}}(2N+182-(2N+169)) \\
&= B_{\bar{N}}(N-37)+B_{\bar{N}}(N-76)+B_{\bar{N}}(13) = (N-37)+(N-76)+13 = 2N-100 \\
&(N \geq 131)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+183) &= B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+182))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+180)) \\
&= B_{\bar{N}}(2N+183-(2N-100))+B_{\bar{N}}(2N+183-(N+219))+B_{\bar{N}}(2N+183-(N+258)) \\
&= B_{\bar{N}}(283)+B_{\bar{N}}(N-36)+B_{\bar{N}}(N-75) = 283+(N-36)+(N-75) = 2N+172 \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+184) &= B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+183))+B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+182))+B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+181)) \\
&= B_{\bar{N}}(2N+184-(2N+172))+B_{\bar{N}}(2N+184-(2N-100))+B_{\bar{N}}(2N+184-(N+219)) \\
&= B_{\bar{N}}(12)+B_{\bar{N}}(284)+B_{\bar{N}}(N-35) = 12+284+(N-35) = N+261 \\
&(N \geq 284)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+185) &= B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+184))+B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+183))+B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+182)) \\
&= B_{\bar{N}}(2N+185-(N+261))+B_{\bar{N}}(2N+185-(2N+172))+B_{\bar{N}}(2N+185-(2N-100)) \\
&= B_{\bar{N}}(N-76)+B_{\bar{N}}(13)+B_{\bar{N}}(285)=(N-76)+13+285=N+222 \\
&(N \geq 285)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+186) &= B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+185))+B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+184))+B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+183)) \\
&= B_{\bar{N}}(2N+186-(N+222))+B_{\bar{N}}(2N+186-(N+261))+B_{\bar{N}}(2N+186-(2N+172)) \\
&= B_{\bar{N}}(N-36)+B_{\bar{N}}(N-75)+B_{\bar{N}}(14)=(N-36)+(N-75)+14=2N-97 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+187) &= B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+186))+B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+185))+B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+184)) \\
&= B_{\bar{N}}(2N+187-(2N-97))+B_{\bar{N}}(2N+187-(N+222))+B_{\bar{N}}(2N+187-(N+261)) \\
&= B_{\bar{N}}(284)+B_{\bar{N}}(N-35)+B_{\bar{N}}(N-74)=284+(N-35)+(N-74)=2N+175 \\
&(N \geq 284)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+188) &= B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+186))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+185)) \\
&= B_{\bar{N}}(2N+188-(2N+175))+B_{\bar{N}}(2N+188-(2N-97))+B_{\bar{N}}(2N+188-(N+222)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(285)+B_{\bar{N}}(N-34)=13+285+(N-34)=N+264 \\
&(N \geq 285)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+189) &= B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+186)) \\
&= B_{\bar{N}}(2N+189-(N+264))+B_{\bar{N}}(2N+189-(2N+175))+B_{\bar{N}}(2N+189-(2N-97)) \\
&= B_{\bar{N}}(N-75)+B_{\bar{N}}(14)+B_{\bar{N}}(286)=(N-75)+14+286=N+225 \\
&(N \geq 286)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+190) &= B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+187)) \\
&= B_{\bar{N}}(2N+190-(N+225))+B_{\bar{N}}(2N+190-(N+264))+B_{\bar{N}}(2N+190-(2N+175)) \\
&= B_{\bar{N}}(N-35)+B_{\bar{N}}(N-74)+B_{\bar{N}}(15) = (N-35)+(N-74)+15 = 2N-94 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+191) &= B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+188)) \\
&= B_{\bar{N}}(2N+191-(2N-94))+B_{\bar{N}}(2N+191-(N+225))+B_{\bar{N}}(2N+191-(N+264)) \\
&= B_{\bar{N}}(285)+B_{\bar{N}}(N-34)+B_{\bar{N}}(N-73) = 285+(N-34)+(N-73) = 2N+178 \\
&(N \geq 285)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+192) &= B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+189)) \\
&= B_{\bar{N}}(2N+192-(2N+178))+B_{\bar{N}}(2N+192-(2N-94))+B_{\bar{N}}(2N+192-(N+225)) \\
&= B_{\bar{N}}(14)+B_{\bar{N}}(286)+B_{\bar{N}}(N-33) = 14+286+(N-33) = N+267 \\
&(N \geq 286)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+193) &= B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+190)) \\
&= B_{\bar{N}}(2N+193-(N+267))+B_{\bar{N}}(2N+193-(2N+178))+B_{\bar{N}}(2N+193-(2N-94)) \\
&= B_{\bar{N}}(N-74)+B_{\bar{N}}(15)+B_{\bar{N}}(287) = (N-74)+15+287 = N+228 \\
&(N \geq 287)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+194) &= B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+191)) \\
&= B_{\bar{N}}(2N+194-(N+228))+B_{\bar{N}}(2N+194-(N+267))+B_{\bar{N}}(2N+194-(2N+178)) \\
&= B_{\bar{N}}(N-34)+B_{\bar{N}}(N-73)+B_{\bar{N}}(16) = (N-34)+(N-73)+16 = 2N-91 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+195) &= B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+192)) \\
&= B_{\bar{N}}(2N+195-(2N-91))+B_{\bar{N}}(2N+195-(N+228))+B_{\bar{N}}(2N+195-(N+267)) \\
&= B_{\bar{N}}(286)+B_{\bar{N}}(N-33)+B_{\bar{N}}(N-72) = 286+(N-33)+(N-72) = 2N+181 \\
&(N \geq 286)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+196) &= B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+193)) \\
&= B_{\bar{N}}(2N+196-(2N+181))+B_{\bar{N}}(2N+196-(2N-91))+B_{\bar{N}}(2N+196-(N+228)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(287)+B_{\bar{N}}(N-32) = 15+287+(N-32) = N+270 \\
&(N \geq 287)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+197) &= B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+196))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+194)) \\
&= B_{\bar{N}}(2N+197-(N+270))+B_{\bar{N}}(2N+197-(2N+181))+B_{\bar{N}}(2N+197-(2N-91)) \\
&= B_{\bar{N}}(N-73)+B_{\bar{N}}(16)+B_{\bar{N}}(288) = (N-73)+16+288 = N+231 \\
&(N \geq 288)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+198) &= B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+197))+B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+196))+B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+195)) \\
&= B_{\bar{N}}(2N+198-(N+231))+B_{\bar{N}}(2N+198-(N+270))+B_{\bar{N}}(2N+198-(2N+181)) \\
&= B_{\bar{N}}(N-33)+B_{\bar{N}}(N-72)+B_{\bar{N}}(17) = (N-33)+(N-72)+17 = 2N-88 \\
&(N \geq 78)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+199) &= B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+198))+B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+197))+B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+196)) \\
&= B_{\bar{N}}(2N+199-(2N-88))+B_{\bar{N}}(2N+199-(N+231))+B_{\bar{N}}(2N+199-(N+270)) \\
&= B_{\bar{N}}(287)+B_{\bar{N}}(N-32)+B_{\bar{N}}(N-71) = 287+(N-32)+(N-71) = 2N+184 \\
&(N \geq 287)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+200) &= B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+199))+B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+198))+B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+197)) \\
&= B_{\bar{N}}(2N+200-(2N+184))+B_{\bar{N}}(2N+200-(2N-88))+B_{\bar{N}}(2N+200-(N+231)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(288)+B_{\bar{N}}(N-31) = 16+288+(N-31) = N+273 \\
&(N \geq 288)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+201) &= B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+200))+B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+199))+B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+198)) \\
&= B_{\bar{N}}(2N+201-(N+273))+B_{\bar{N}}(2N+201-(2N+184))+B_{\bar{N}}(2N+201-(2N-88)) \\
&= B_{\bar{N}}(N-72)+B_{\bar{N}}(17)+B_{\bar{N}}(289) = (N-72)+17+289 = N+234 \\
&(N \geq 289)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+202) &= B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+201))+B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+200))+B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+199)) \\
&= B_{\bar{N}}(2N+202-(N+234))+B_{\bar{N}}(2N+202-(N+273))+B_{\bar{N}}(2N+202-(2N+184)) \\
&= B_{\bar{N}}(N-32)+B_{\bar{N}}(N-71)+B_{\bar{N}}(18) = (N-32)+(N-71)+18 = 2N-85 \\
&(N \geq 189)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+203) &= B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+201))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+200)) \\
&= B_{\bar{N}}(2N+203-(2N-85))+B_{\bar{N}}(2N+203-(N+234))+B_{\bar{N}}(2N+203-(N+273)) \\
&= B_{\bar{N}}(288)+B_{\bar{N}}(N-31)+B_{\bar{N}}(N-70) = 288+(N-31)+(N-70) = 2N+187 \\
&(N \geq 288)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+204) &= B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+201)) \\
&= B_{\bar{N}}(2N+204-(2N+187))+B_{\bar{N}}(2N+204-(2N-85))+B_{\bar{N}}(2N+204-(N+234)) \\
&= B_{\bar{N}}(17)+B_{\bar{N}}(289)+B_{\bar{N}}(N-30) = 17+289+(N-30) = N+276 \\
&(N \geq 289)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+205) &= B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+202)) \\
&= B_{\bar{N}}(2N+205-(N+276))+B_{\bar{N}}(2N+205-(2N+187))+B_{\bar{N}}(2N+205-(2N-85)) \\
&= B_{\bar{N}}(N-71)+B_{\bar{N}}(18)+B_{\bar{N}}(290) = (N-71)+18+290 = N+237 \\
&(N \geq 290)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+206) &= B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+203)) \\
&= B_{\bar{N}}(2N+206-(N+237))+B_{\bar{N}}(2N+206-(N+276))+B_{\bar{N}}(2N+206-(2N+187)) \\
&= B_{\bar{N}}(N-31)+B_{\bar{N}}(N-70)+B_{\bar{N}}(19) = (N-31)+(N-70)+19 = 2N-82 \\
&(N \geq 189)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+207) &= B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+204)) \\
&= B_{\bar{N}}(2N+207-(2N-82))+B_{\bar{N}}(2N+207-(N+237))+B_{\bar{N}}(2N+207-(N+276)) \\
&= B_{\bar{N}}(289)+B_{\bar{N}}(N-30)+B_{\bar{N}}(N-69) = 289+(N-30)+(N-69) = 2N+190 \\
&(N \geq 289)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+208) &= B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+205)) \\
&= B_{\bar{N}}(2N+208-(2N+190))+B_{\bar{N}}(2N+208-(2N-82))+B_{\bar{N}}(2N+208-(N+237)) \\
&= B_{\bar{N}}(18)+B_{\bar{N}}(290)+B_{\bar{N}}(N-29) = 18+290+(N-29) = N+279 \\
&(N \geq 290)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+209) &= B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+206)) \\
&= B_{\bar{N}}(2N+209-(N+279))+B_{\bar{N}}(2N+209-(2N+190))+B_{\bar{N}}(2N+209-(2N-82)) \\
&= B_{\bar{N}}(N-70)+B_{\bar{N}}(19)+B_{\bar{N}}(291) = (N-70)+19+291 = N+240 \\
&(N \geq 291)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+210) &= B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+207)) \\
&= B_{\bar{N}}(2N+210-(N+240))+B_{\bar{N}}(2N+210-(N+279))+B_{\bar{N}}(2N+210-(2N+190)) \\
&= B_{\bar{N}}(N-30)+B_{\bar{N}}(N-69)+B_{\bar{N}}(20) = (N-30)+(N-69)+20 = 2N-79 \\
&(N \geq 181)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+211) &= B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+208)) \\
&= B_{\bar{N}}(2N+211-(2N-79))+B_{\bar{N}}(2N+211-(N+240))+B_{\bar{N}}(2N+211-(N+279)) \\
&= B_{\bar{N}}(290)+B_{\bar{N}}(N-29)+B_{\bar{N}}(N-68) = 290+(N-29)+(N-68) = 2N+193 \\
&(N \geq 290)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+212) &= B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+209)) \\
&= B_{\bar{N}}(2N+212-(2N+193))+B_{\bar{N}}(2N+212-(2N-79))+B_{\bar{N}}(2N+212-(N+240)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(291)+B_{\bar{N}}(N-28) = 19+291+(N-28) = N+282 \\
&(N \geq 291)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+213) &= B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+210)) \\
&= B_{\bar{N}}(2N+213-(N+282))+B_{\bar{N}}(2N+213-(2N+193))+B_{\bar{N}}(2N+213-(2N-79)) \\
&= B_{\bar{N}}(N-69)+B_{\bar{N}}(20)+B_{\bar{N}}(292) = (N-69)+20+292 = N+243 \\
&(N \geq 292)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+214) &= B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+211)) \\
&= B_{\bar{N}}(2N+214-(N+243))+B_{\bar{N}}(2N+214-(N+282))+B_{\bar{N}}(2N+214-(2N+193)) \\
&= B_{\bar{N}}(N-29)+B_{\bar{N}}(N-68)+B_{\bar{N}}(21) = (N-29)+(N-68)+21 = 2N-76 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+215) &= B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+212)) \\
&= B_{\bar{N}}(2N+215-(2N-76))+B_{\bar{N}}(2N+215-(N+243))+B_{\bar{N}}(2N+215-(N+282)) \\
&= B_{\bar{N}}(291)+B_{\bar{N}}(N-28)+B_{\bar{N}}(N-67) = 291+(N-28)+(N-67) = 2N+196 \\
&(N \geq 291)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+216) &= B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+213)) \\
&= B_{\bar{N}}(2N+216-(2N+196))+B_{\bar{N}}(2N+216-(2N-76))+B_{\bar{N}}(2N+216-(N+243)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(292)+B_{\bar{N}}(N-27) = 20+292+(N-27) = N+285 \\
&(N \geq 292)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+217) &= B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+214)) \\
&= B_{\bar{N}}(2N+217-(N+285))+B_{\bar{N}}(2N+217-(2N+196))+B_{\bar{N}}(2N+217-(2N-76)) \\
&= B_{\bar{N}}(N-68)+B_{\bar{N}}(21)+B_{\bar{N}}(293) = (N-68)+21+293 = N+246 \\
&(N \geq 293)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+218) &= B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+215)) \\
&= B_{\bar{N}}(2N+218-(N+246))+B_{\bar{N}}(2N+218-(N+285))+B_{\bar{N}}(2N+218-(2N+196)) \\
&= B_{\bar{N}}(N-28)+B_{\bar{N}}(N-67)+B_{\bar{N}}(22) = (N-28)+(N-67)+22 = 2N-73 \\
&(N \geq 68)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+219) &= B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+216)) \\
&= B_{\bar{N}}(2N+219-(2N-73))+B_{\bar{N}}(2N+219-(N+246))+B_{\bar{N}}(2N+219-(N+285)) \\
&= B_{\bar{N}}(292)+B_{\bar{N}}(N-27)+B_{\bar{N}}(N-66) = 292+(N-27)+(N-66) = 2N+199 \\
&(N \geq 292)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+220) &= B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+217)) \\
&= B_{\bar{N}}(2N+220-(2N+199))+B_{\bar{N}}(2N+220-(2N-73))+B_{\bar{N}}(2N+220-(N+246)) \\
&= B_{\bar{N}}(21)+B_{\bar{N}}(293)+B_{\bar{N}}(N-26) = 21+293+(N-26) = N+288 \\
&(N \geq 293)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+221) &= B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+218)) \\
&= B_{\bar{N}}(2N+221-(N+288))+B_{\bar{N}}(2N+221-(2N+199))+B_{\bar{N}}(2N+221-(2N-73)) \\
&= B_{\bar{N}}(N-67)+B_{\bar{N}}(22)+B_{\bar{N}}(294) = (N-67)+22+294 = N+249 \\
&(N \geq 294)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+222) &= B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+219)) \\
&= B_{\bar{N}}(2N+222-(N+249))+B_{\bar{N}}(2N+222-(N+288))+B_{\bar{N}}(2N+222-(2N+199)) \\
&= B_{\bar{N}}(N-27)+B_{\bar{N}}(N-66)+B_{\bar{N}}(23) = (N-27)+(N-66)+23 = 2N-70 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+223) &= B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+220)) \\
&= B_{\bar{N}}(2N+223-(2N-70))+B_{\bar{N}}(2N+223-(N+249))+B_{\bar{N}}(2N+223-(N+288)) \\
&= B_{\bar{N}}(293)+B_{\bar{N}}(N-26)+B_{\bar{N}}(N-65) = 293+(N-26)+(N-65) = 2N+202 \\
&(N \geq 293)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+224) &= B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+221)) \\
&= B_{\bar{N}}(2N+224-(2N+202))+B_{\bar{N}}(2N+224-(2N-70))+B_{\bar{N}}(2N+224-(N+249)) \\
&= B_{\bar{N}}(22)+B_{\bar{N}}(294)+B_{\bar{N}}(N-25) = 22+294+(N-25) = N+291 \\
&(N \geq 294)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+225) &= B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+222)) \\
&= B_{\bar{N}}(2N+225-(N+291))+B_{\bar{N}}(2N+225-(2N+202))+B_{\bar{N}}(2N+225-(2N-70)) \\
&= B_{\bar{N}}(N-66)+B_{\bar{N}}(23)+B_{\bar{N}}(295)=(N-66)+23+295=N+252 \\
&(N \geq 295)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+226) &= B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+223)) \\
&= B_{\bar{N}}(2N+226-(N+252))+B_{\bar{N}}(2N+226-(N+291))+B_{\bar{N}}(2N+226-(2N+202)) \\
&= B_{\bar{N}}(N-26)+B_{\bar{N}}(N-65)+B_{\bar{N}}(24)=(N-26)+(N-65)+24=2N-67 \\
&(N \geq 161)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+227) &= B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+224)) \\
&= B_{\bar{N}}(2N+227-(2N-67))+B_{\bar{N}}(2N+227-(N+252))+B_{\bar{N}}(2N+227-(N+291)) \\
&= B_{\bar{N}}(294)+B_{\bar{N}}(N-25)+B_{\bar{N}}(N-64)=294+(N-25)+(N-64)=2N+205 \\
&(N \geq 294)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+228) &= B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+225)) \\
&= B_{\bar{N}}(2N+228-(2N+205))+B_{\bar{N}}(2N+228-(2N-67))+B_{\bar{N}}(2N+228-(N+252)) \\
&= B_{\bar{N}}(23)+B_{\bar{N}}(295)+B_{\bar{N}}(N-24)=23+295+(N-24)=N+294 \\
&(N \geq 295)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+229) &= B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+226)) \\
&= B_{\bar{N}}(2N+229-(N+294))+B_{\bar{N}}(2N+229-(2N+205))+B_{\bar{N}}(2N+229-(2N-67)) \\
&= B_{\bar{N}}(N-65)+B_{\bar{N}}(24)+B_{\bar{N}}(296)=(N-65)+24+296=N+255 \\
&(N \geq 296)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+230) &= B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+227)) \\
&= B_{\bar{N}}(2N+230-(N+255))+B_{\bar{N}}(2N+230-(N+294))+B_{\bar{N}}(2N+230-(2N+205)) \\
&= B_{\bar{N}}(N-25)+B_{\bar{N}}(N-64)+B_{\bar{N}}(25) = (N-25)+(N-64)+25 = 2N-64 \\
&(N \geq 229)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+231) &= B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+228)) \\
&= B_{\bar{N}}(2N+231-(2N-64))+B_{\bar{N}}(2N+231-(N+255))+B_{\bar{N}}(2N+231-(N+294)) \\
&= B_{\bar{N}}(295)+B_{\bar{N}}(N-24)+B_{\bar{N}}(N-63) = 295+(N-24)+(N-63) = 2N+208 \\
&(N \geq 295)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+232) &= B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+229)) \\
&= B_{\bar{N}}(2N+232-(2N+208))+B_{\bar{N}}(2N+232-(2N-64))+B_{\bar{N}}(2N+232-(N+255)) \\
&= B_{\bar{N}}(24)+B_{\bar{N}}(296)+B_{\bar{N}}(N-23) = 24+296+(N-23) = N+297 \\
&(N \geq 296)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+233) &= B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+230)) \\
&= B_{\bar{N}}(2N+233-(N+297))+B_{\bar{N}}(2N+233-(2N+208))+B_{\bar{N}}(2N+233-(2N-64)) \\
&= B_{\bar{N}}(N-64)+B_{\bar{N}}(25)+B_{\bar{N}}(297) = (N-64)+25+297 = N+258 \\
&(N \geq 297)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+234) &= B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+231)) \\
&= B_{\bar{N}}(2N+234-(N+258))+B_{\bar{N}}(2N+234-(N+297))+B_{\bar{N}}(2N+234-(2N+208)) \\
&= B_{\bar{N}}(N-24)+B_{\bar{N}}(N-63)+B_{\bar{N}}(26) = (N-24)+(N-63)+26 = 2N-61 \\
&(N \geq 155)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+235) &= B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+232)) \\
&= B_{\bar{N}}(2N+235-(2N-61))+B_{\bar{N}}(2N+235-(N+258))+B_{\bar{N}}(2N+235-(N+297)) \\
&= B_{\bar{N}}(296)+B_{\bar{N}}(N-23)+B_{\bar{N}}(N-62) = 296+(N-23)+(N-62) = 2N+211 \\
&(N \geq 296)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+236) &= B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+233)) \\
&= B_{\bar{N}}(2N+236-(2N+211))+B_{\bar{N}}(2N+236-(2N-61))+B_{\bar{N}}(2N+236-(N+258)) \\
&= B_{\bar{N}}(25)+B_{\bar{N}}(297)+B_{\bar{N}}(N-22) = 25+297+(N-22) = N+300 \\
&(N \geq 365)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+237) &= B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+234)) \\
&= B_{\bar{N}}(2N+237-(N+300))+B_{\bar{N}}(2N+237-(2N+211))+B_{\bar{N}}(2N+237-(2N-61)) \\
&= B_{\bar{N}}(N-63)+B_{\bar{N}}(26)+B_{\bar{N}}(298) = (N-63)+26+298 = N+261 \\
&(N \geq 366)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+238) &= B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+235)) \\
&= B_{\bar{N}}(2N+238-(N+261))+B_{\bar{N}}(2N+238-(N+300))+B_{\bar{N}}(2N+238-(2N+211)) \\
&= B_{\bar{N}}(N-23)+B_{\bar{N}}(N-62)+B_{\bar{N}}(27) = (N-23)+(N-62)+27 = 2N-58 \\
&(N \geq 367)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+239) &= B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+236)) \\
&= B_{\bar{N}}(2N+239-(2N-58))+B_{\bar{N}}(2N+239-(N+261))+B_{\bar{N}}(2N+239-(N+300)) \\
&= B_{\bar{N}}(297)+B_{\bar{N}}(N-22)+B_{\bar{N}}(N-61) = 297+(N-22)+(N-61) = 2N+214 \\
&(N \geq 297)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+240) &= B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+237)) \\
&= B_{\bar{N}}(2N+240-(2N+214))+B_{\bar{N}}(2N+240-(2N-58))+B_{\bar{N}}(2N+240-(N+261)) \\
&= B_{\bar{N}}(26)+B_{\bar{N}}(298)+B_{\bar{N}}(N-21) = 26+298+(N-21) = N+303 \\
&(N \geq 298)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+241) &= B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+238)) \\
&= B_{\bar{N}}(2N+241-(N+303))+B_{\bar{N}}(2N+241-(2N+214))+B_{\bar{N}}(2N+241-(2N-58)) \\
&= B_{\bar{N}}(N-62)+B_{\bar{N}}(27)+B_{\bar{N}}(299) = (N-62)+27+299 = N+264 \\
&(N \geq 299)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+242) &= B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+239)) \\
&= B_{\bar{N}}(2N+242-(N+264))+B_{\bar{N}}(2N+242-(N+303))+B_{\bar{N}}(2N+242-(2N+214)) \\
&= B_{\bar{N}}(N-22)+B_{\bar{N}}(N-61)+B_{\bar{N}}(28) = (N-22)+(N-61)+28 = 2N-55 \\
&(N \geq 123)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+243) &= B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+240)) \\
&= B_{\bar{N}}(2N+243-(2N-55))+B_{\bar{N}}(2N+243-(N+264))+B_{\bar{N}}(2N+243-(N+303)) \\
&= B_{\bar{N}}(298)+B_{\bar{N}}(N-21)+B_{\bar{N}}(N-60) = 298+(N-21)+(N-60) = 2N+217 \\
&(N \geq 298)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+244) &= B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+241)) \\
&= B_{\bar{N}}(2N+244-(2N+217))+B_{\bar{N}}(2N+244-(2N-55))+B_{\bar{N}}(2N+244-(N+264)) \\
&= B_{\bar{N}}(27)+B_{\bar{N}}(299)+B_{\bar{N}}(N-20) = 27+299+(N-20) = N+306 \\
&(N \geq 299)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+245) &= B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+242)) \\
&= B_{\bar{N}}(2N+245-(N+306))+B_{\bar{N}}(2N+245-(2N+217))+B_{\bar{N}}(2N+245-(2N-55)) \\
&= B_{\bar{N}}(N-61)+B_{\bar{N}}(28)+B_{\bar{N}}(300)=(N-61)+28+300=N+267 \\
&(N \geq 300)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+246) &= B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+243)) \\
&= B_{\bar{N}}(2N+246-(N+267))+B_{\bar{N}}(2N+246-(N+306))+B_{\bar{N}}(2N+246-(2N+217)) \\
&= B_{\bar{N}}(N-21)+B_{\bar{N}}(N-60)+B_{\bar{N}}(29)=(N-21)+(N-60)+29=2N-52 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+247) &= B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+244)) \\
&= B_{\bar{N}}(2N+247-(2N-52))+B_{\bar{N}}(2N+247-(N+267))+B_{\bar{N}}(2N+247-(N+306)) \\
&= B_{\bar{N}}(299)+B_{\bar{N}}(N-20)+B_{\bar{N}}(N-59)=299+(N-20)+(N-59)=2N+220 \\
&(N \geq 299)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+248) &= B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+245)) \\
&= B_{\bar{N}}(2N+248-(2N+220))+B_{\bar{N}}(2N+248-(2N-52))+B_{\bar{N}}(2N+248-(N+267)) \\
&= B_{\bar{N}}(28)+B_{\bar{N}}(300)+B_{\bar{N}}(N-19)=28+300+(N-19)=N+309 \\
&(N \geq 300)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+249) &= B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+246)) \\
&= B_{\bar{N}}(2N+249-(N+309))+B_{\bar{N}}(2N+249-(2N+220))+B_{\bar{N}}(2N+249-(2N-52)) \\
&= B_{\bar{N}}(N-60)+B_{\bar{N}}(29)+B_{\bar{N}}(301)=(N-60)+29+301=N+270 \\
&(N \geq 301)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+250) &= B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+247)) \\
&= B_{\bar{N}}(2N+250-(N+270))+B_{\bar{N}}(2N+250-(N+309))+B_{\bar{N}}(2N+250-(2N+220)) \\
&= B_{\bar{N}}(N-20)+B_{\bar{N}}(N-59)+B_{\bar{N}}(30)=(N-20)+(N-59)+30=2N-49 \\
&(N \geq 216)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+251) &= B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+248)) \\
&= B_{\bar{N}}(2N+251-(2N-49))+B_{\bar{N}}(2N+251-(N+270))+B_{\bar{N}}(2N+251-(N+309)) \\
&= B_{\bar{N}}(300)+B_{\bar{N}}(N-19)+B_{\bar{N}}(N-58)=300+(N-19)+(N-58)=2N+223 \\
&(N \geq 324)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+252) &= B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+249)) \\
&= B_{\bar{N}}(2N+252-(2N+223))+B_{\bar{N}}(2N+252-(2N-49))+B_{\bar{N}}(2N+252-(N+270)) \\
&= B_{\bar{N}}(29)+B_{\bar{N}}(301)+B_{\bar{N}}(N-18)=29+301+(N-18)=N+312 \\
&(N \geq 323)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+253) &= B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+250)) \\
&= B_{\bar{N}}(2N+253-(N+312))+B_{\bar{N}}(2N+253-(2N+223))+B_{\bar{N}}(2N+253-(2N-49)) \\
&= B_{\bar{N}}(N-59)+B_{\bar{N}}(30)+B_{\bar{N}}(302)=(N-59)+30+302=N+273 \\
&(N \geq 322)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+254) &= B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+253))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+251)) \\
&= B_{\bar{N}}(2N+254-(N+273))+B_{\bar{N}}(2N+254-(N+312))+B_{\bar{N}}(2N+254-(2N+223)) \\
&= B_{\bar{N}}(N-19)+B_{\bar{N}}(N-58)+B_{\bar{N}}(31)=(N-19)+(N-58)+31=2N-46 \\
&(N \geq 2087)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+255) &= B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+254))+B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+253))+B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+252)) \\
&= B_{\bar{N}}(2N+255-(2N-46))+B_{\bar{N}}(2N+255-(N+273))+B_{\bar{N}}(2N+255-(N+312)) \\
&= B_{\bar{N}}(301)+B_{\bar{N}}(N-18)+B_{\bar{N}}(N-57) = 301+(N-18)+(N-57) = 2N+226 \\
&(N \geq 301)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+256) &= B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+255))+B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+254))+B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+253)) \\
&= B_{\bar{N}}(2N+256-(2N+226))+B_{\bar{N}}(2N+256-(2N-46))+B_{\bar{N}}(2N+256-(N+273)) \\
&= B_{\bar{N}}(30)+B_{\bar{N}}(302)+B_{\bar{N}}(N-17) = 30+302+(N-17) = N+315 \\
&(N \geq 302)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+257) &= B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+256))+B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+255))+B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+254)) \\
&= B_{\bar{N}}(2N+257-(N+315))+B_{\bar{N}}(2N+257-(2N+226))+B_{\bar{N}}(2N+257-(2N-46)) \\
&= B_{\bar{N}}(N-58)+B_{\bar{N}}(31)+B_{\bar{N}}(303) = (N-58)+31+303 = N+276 \\
&(N \geq 303)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+258) &= B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+257))+B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+256))+B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+255)) \\
&= B_{\bar{N}}(2N+258-(N+276))+B_{\bar{N}}(2N+258-(N+315))+B_{\bar{N}}(2N+258-(2N+226)) \\
&= B_{\bar{N}}(N-18)+B_{\bar{N}}(N-57)+B_{\bar{N}}(32) = (N-18)+(N-57)+32 = 2N-43 \\
&(N \geq 58)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+259) &= B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+258))+B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+257))+B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+256)) \\
&= B_{\bar{N}}(2N+259-(2N-43))+B_{\bar{N}}(2N+259-(N+276))+B_{\bar{N}}(2N+259-(N+315)) \\
&= B_{\bar{N}}(302)+B_{\bar{N}}(N-17)+B_{\bar{N}}(N-56) = 302+(N-17)+(N-56) = 2N+229 \\
&(N \geq 302)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+260) &= B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+259))+B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+258))+B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+257)) \\
&= B_{\bar{N}}(2N+260-(2N+229))+B_{\bar{N}}(2N+260-(2N-43))+B_{\bar{N}}(2N+260-(N+276)) \\
&= B_{\bar{N}}(31)+B_{\bar{N}}(303)+B_{\bar{N}}(N-16) = 31+303+(N-16) = N+318 \\
&(N \geq 303)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+261) &= B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+260))+B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+259))+B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+258)) \\
&= B_{\bar{N}}(2N+261-(N+318))+B_{\bar{N}}(2N+261-(2N+229))+B_{\bar{N}}(2N+261-(2N-43)) \\
&= B_{\bar{N}}(N-57)+B_{\bar{N}}(32)+B_{\bar{N}}(304) = (N-57)+32+304 = N+279 \\
&(N \geq 304)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+262) &= B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+261))+B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+260))+B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+259)) \\
&= B_{\bar{N}}(2N+262-(N+279))+B_{\bar{N}}(2N+262-(N+318))+B_{\bar{N}}(2N+262-(2N+229)) \\
&= B_{\bar{N}}(N-17)+B_{\bar{N}}(N-56)+B_{\bar{N}}(33) = (N-17)+(N-56)+33 = 2N-40 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+263) &= B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+262))+B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+261))+B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+260)) \\
&= B_{\bar{N}}(2N+263-(2N-40))+B_{\bar{N}}(2N+263-(N+279))+B_{\bar{N}}(2N+263-(N+318)) \\
&= B_{\bar{N}}(303)+B_{\bar{N}}(N-16)+B_{\bar{N}}(N-55) = 303+(N-16)+(N-55) = 2N+232 \\
&(N \geq 303)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+264) &= B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+263))+B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+262))+B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+261)) \\
&= B_{\bar{N}}(2N+264-(2N+232))+B_{\bar{N}}(2N+264-(2N-40))+B_{\bar{N}}(2N+264-(N+279)) \\
&= B_{\bar{N}}(32)+B_{\bar{N}}(304)+B_{\bar{N}}(N-15) = 32+304+(N-15) = N+321 \\
&(N \geq 304)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+265) &= B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+264))+B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+263))+B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+262)) \\
&= B_{\bar{N}}(2N+265-(N+321))+B_{\bar{N}}(2N+265-(2N+232))+B_{\bar{N}}(2N+265-(2N-40)) \\
&= B_{\bar{N}}(N-56)+B_{\bar{N}}(33)+B_{\bar{N}}(305)=(N-56)+33+305=N+282 \\
&(N \geq 305)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+266) &= B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+265))+B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+264))+B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+263)) \\
&= B_{\bar{N}}(2N+266-(N+282))+B_{\bar{N}}(2N+266-(N+321))+B_{\bar{N}}(2N+266-(2N+232)) \\
&= B_{\bar{N}}(N-16)+B_{\bar{N}}(N-55)+B_{\bar{N}}(34)=(N-16)+(N-55)+34=2N-37 \\
&(N \geq 56)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+267) &= B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+266))+B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+265))+B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+264)) \\
&= B_{\bar{N}}(2N+267-(2N-37))+B_{\bar{N}}(2N+267-(N+282))+B_{\bar{N}}(2N+267-(N+321)) \\
&= B_{\bar{N}}(304)+B_{\bar{N}}(N-15)+B_{\bar{N}}(N-54)=304+(N-15)+(N-54)=2N+235 \\
&(N \geq 304)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+268) &= B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+267))+B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+266))+B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+265)) \\
&= B_{\bar{N}}(2N+268-(2N+235))+B_{\bar{N}}(2N+268-(2N-37))+B_{\bar{N}}(2N+268-(N+282)) \\
&= B_{\bar{N}}(33)+B_{\bar{N}}(305)+B_{\bar{N}}(N-14)=33+305+(N-14)=N+324 \\
&(N \geq 305)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+269) &= B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+268))+B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+267))+B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+266)) \\
&= B_{\bar{N}}(2N+269-(N+324))+B_{\bar{N}}(2N+269-(2N+235))+B_{\bar{N}}(2N+269-(2N-37)) \\
&= B_{\bar{N}}(N-55)+B_{\bar{N}}(34)+B_{\bar{N}}(306)=(N-55)+34+306=N+285 \\
&(N \geq 306)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+270) &= B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+269))+B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+268))+B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+267)) \\
&= B_{\bar{N}}(2N+270-(N+285))+B_{\bar{N}}(2N+270-(N+324))+B_{\bar{N}}(2N+270-(2N+235)) \\
&= B_{\bar{N}}(N-15)+B_{\bar{N}}(N-54)+B_{\bar{N}}(35)=(N-15)+(N-54)+35=2N-34 \\
&(N \geq 55)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+271) &= B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+270))+B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+269))+B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+268)) \\
&= B_{\bar{N}}(2N+271-(2N-34))+B_{\bar{N}}(2N+271-(N+285))+B_{\bar{N}}(2N+271-(N+324)) \\
&= B_{\bar{N}}(305)+B_{\bar{N}}(N-14)+B_{\bar{N}}(N-53)=305+(N-14)+(N-53)=2N+238 \\
&(N \geq 305)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+272) &= B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+271))+B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+270))+B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+269)) \\
&= B_{\bar{N}}(2N+272-(2N+238))+B_{\bar{N}}(2N+272-(2N-34))+B_{\bar{N}}(2N+272-(N+285)) \\
&= B_{\bar{N}}(34)+B_{\bar{N}}(306)+B_{\bar{N}}(N-13)=34+306+(N-13)=N+327 \\
&(N \geq 306)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+273) &= B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+272))+B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+271))+B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+270)) \\
&= B_{\bar{N}}(2N+273-(N+327))+B_{\bar{N}}(2N+273-(2N+238))+B_{\bar{N}}(2N+273-(2N-34)) \\
&= B_{\bar{N}}(N-54)+B_{\bar{N}}(35)+B_{\bar{N}}(307)=(N-54)+35+307=N+288 \\
&(N \geq 307)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+274) &= B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+273))+B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+272))+B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+271)) \\
&= B_{\bar{N}}(2N+274-(N+288))+B_{\bar{N}}(2N+274-(N+327))+B_{\bar{N}}(2N+274-(2N+238)) \\
&= B_{\bar{N}}(N-14)+B_{\bar{N}}(N-53)+B_{\bar{N}}(36)=(N-14)+(N-53)+36=2N-31 \\
&(N \geq 54)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+275) &= B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+274))+B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+273))+B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+272)) \\
&= B_{\bar{N}}(2N+275-(2N-31))+B_{\bar{N}}(2N+275-(N+288))+B_{\bar{N}}(2N+275-(N+327)) \\
&= B_{\bar{N}}(306)+B_{\bar{N}}(N-13)+B_{\bar{N}}(N-52) = 306+(N-13)+(N-52) = 2N+241 \\
&(N \geq 306)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+276) &= B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+275))+B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+274))+B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+273)) \\
&= B_{\bar{N}}(2N+276-(2N+241))+B_{\bar{N}}(2N+276-(2N-31))+B_{\bar{N}}(2N+276-(N+288)) \\
&= B_{\bar{N}}(35)+B_{\bar{N}}(307)+B_{\bar{N}}(N-12) = 35+307+(N-12) = N+330 \\
&(N \geq 307)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+277) &= B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+276))+B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+275))+B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+274)) \\
&= B_{\bar{N}}(2N+277-(N+330))+B_{\bar{N}}(2N+277-(2N+241))+B_{\bar{N}}(2N+277-(2N-31)) \\
&= B_{\bar{N}}(N-53)+B_{\bar{N}}(36)+B_{\bar{N}}(308) = (N-53)+36+308 = N+291 \\
&(N \geq 308)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+278) &= B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+277))+B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+276))+B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+275)) \\
&= B_{\bar{N}}(2N+278-(N+291))+B_{\bar{N}}(2N+278-(N+330))+B_{\bar{N}}(2N+278-(2N+241)) \\
&= B_{\bar{N}}(N-13)+B_{\bar{N}}(N-52)+B_{\bar{N}}(37) = (N-13)+(N-52)+37 = 2N-28 \\
&(N \geq 53)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+279) &= B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+278))+B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+277))+B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+276)) \\
&= B_{\bar{N}}(2N+279-(2N-28))+B_{\bar{N}}(2N+279-(N+291))+B_{\bar{N}}(2N+279-(N+330)) \\
&= B_{\bar{N}}(307)+B_{\bar{N}}(N-12)+B_{\bar{N}}(N-51) = 307+(N-12)+(N-51) = 2N+244 \\
&(N \geq 307)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+280) &= B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+279))+B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+278))+B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+277)) \\
&= B_{\bar{N}}(2N+280-(2N+244))+B_{\bar{N}}(2N+280-(2N-28))+B_{\bar{N}}(2N+280-(N+291)) \\
&= B_{\bar{N}}(36)+B_{\bar{N}}(308)+B_{\bar{N}}(N-11) = 36+308+(N-11) = N+333 \\
&(N \geq 308)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+281) &= B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+280))+B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+279))+B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+278)) \\
&= B_{\bar{N}}(2N+281-(N+333))+B_{\bar{N}}(2N+281-(2N+244))+B_{\bar{N}}(2N+281-(2N-28)) \\
&= B_{\bar{N}}(N-52)+B_{\bar{N}}(37)+B_{\bar{N}}(309) = (N-52)+37+309 = N+294 \\
&(N \geq 309)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+282) &= B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+281))+B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+280))+B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+279)) \\
&= B_{\bar{N}}(2N+282-(N+294))+B_{\bar{N}}(2N+282-(N+333))+B_{\bar{N}}(2N+282-(2N+244)) \\
&= B_{\bar{N}}(N-12)+B_{\bar{N}}(N-51)+B_{\bar{N}}(38) = (N-12)+(N-51)+38 = 2N-25 \\
&(N \geq 52)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+283) &= B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+282))+B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+281))+B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+280)) \\
&= B_{\bar{N}}(2N+283-(2N-25))+B_{\bar{N}}(2N+283-(N+294))+B_{\bar{N}}(2N+283-(N+333)) \\
&= B_{\bar{N}}(308)+B_{\bar{N}}(N-11)+B_{\bar{N}}(N-50) = 308+(N-11)+(N-50) = 2N+247 \\
&(N \geq 308)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+284) &= B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+283))+B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+282))+B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+281)) \\
&= B_{\bar{N}}(2N+284-(2N+247))+B_{\bar{N}}(2N+284-(2N-25))+B_{\bar{N}}(2N+284-(N+294)) \\
&= B_{\bar{N}}(37)+B_{\bar{N}}(309)+B_{\bar{N}}(N-10) = 37+309+(N-10) = N+336 \\
&(N \geq 309)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+285) &= B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+284))+B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+283))+B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+282)) \\
&= B_{\bar{N}}(2N+285-(N+336))+B_{\bar{N}}(2N+285-(2N+247))+B_{\bar{N}}(2N+285-(2N-25)) \\
&= B_{\bar{N}}(N-51)+B_{\bar{N}}(38)+B_{\bar{N}}(310)=(N-51)+38+310=N+297 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+286) &= B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+285))+B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+284))+B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+283)) \\
&= B_{\bar{N}}(2N+286-(N+297))+B_{\bar{N}}(2N+286-(N+336))+B_{\bar{N}}(2N+286-(2N+247)) \\
&= B_{\bar{N}}(N-11)+B_{\bar{N}}(N-50)+B_{\bar{N}}(39)=(N-11)+(N-50)+39=2N-22 \\
&(N \geq 51)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+287) &= B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+286))+B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+285))+B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+284)) \\
&= B_{\bar{N}}(2N+287-(2N-22))+B_{\bar{N}}(2N+287-(N+297))+B_{\bar{N}}(2N+287-(N+336)) \\
&= B_{\bar{N}}(309)+B_{\bar{N}}(N-10)+B_{\bar{N}}(N-49)=309+(N-10)+(N-49)=2N+250 \\
&(N \geq 309)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+288) &= B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+287))+B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+286))+B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+285)) \\
&= B_{\bar{N}}(2N+288-(2N+250))+B_{\bar{N}}(2N+288-(2N-22))+B_{\bar{N}}(2N+288-(N+297)) \\
&= B_{\bar{N}}(38)+B_{\bar{N}}(310)+B_{\bar{N}}(N-9)=38+310+(N-9)=N+339 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+289) &= B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+288))+B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+287))+B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+286)) \\
&= B_{\bar{N}}(2N+289-(N+339))+B_{\bar{N}}(2N+289-(2N+250))+B_{\bar{N}}(2N+289-(2N-22)) \\
&= B_{\bar{N}}(N-50)+B_{\bar{N}}(39)+B_{\bar{N}}(311)=(N-50)+39+311=N+300 \\
&(N \geq 311)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+290) &= B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+289))+B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+288))+B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+287)) \\
&= B_{\bar{N}}(2N+290-(N+300))+B_{\bar{N}}(2N+290-(N+339))+B_{\bar{N}}(2N+290-(2N+250)) \\
&= B_{\bar{N}}(N-10)+B_{\bar{N}}(N-49)+B_{\bar{N}}(40)=(N-10)+(N-49)+40=2N-19 \\
&(N \geq 50)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+291) &= B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+290))+B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+289))+B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+288)) \\
&= B_{\bar{N}}(2N+291-(2N-19))+B_{\bar{N}}(2N+291-(N+300))+B_{\bar{N}}(2N+291-(N+339)) \\
&= B_{\bar{N}}(310)+B_{\bar{N}}(N-9)+B_{\bar{N}}(N-48)=310+(N-9)+(N-48)=2N+253 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+292) &= B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+291))+B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+290))+B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+289)) \\
&= B_{\bar{N}}(2N+292-(2N+253))+B_{\bar{N}}(2N+292-(2N-19))+B_{\bar{N}}(2N+292-(N+300)) \\
&= B_{\bar{N}}(39)+B_{\bar{N}}(311)+B_{\bar{N}}(N-8)=39+311+(N-8)=N+342 \\
&(N \geq 311)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+293) &= B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+292))+B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+291))+B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+290)) \\
&= B_{\bar{N}}(2N+293-(N+342))+B_{\bar{N}}(2N+293-(2N+253))+B_{\bar{N}}(2N+293-(2N-19)) \\
&= B_{\bar{N}}(N-49)+B_{\bar{N}}(40)+B_{\bar{N}}(312)=(N-49)+40+312=N+303 \\
&(N \geq 312)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+294) &= B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+293))+B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+292))+B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+291)) \\
&= B_{\bar{N}}(2N+294-(N+303))+B_{\bar{N}}(2N+294-(N+342))+B_{\bar{N}}(2N+294-(2N+253)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(N-48)+B_{\bar{N}}(41)=(N-9)+(N-48)+41=2N-16 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+295) &= B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+294))+B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+293))+B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+292)) \\
&= B_{\bar{N}}(2N+295-(2N-16))+B_{\bar{N}}(2N+295-(N+303))+B_{\bar{N}}(2N+295-(N+342)) \\
&= B_{\bar{N}}(311)+B_{\bar{N}}(N-8)+B_{\bar{N}}(N-47) = 311+(N-8)+(N-47) = 2N+256 \\
&(N \geq 311)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+296) &= B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+295))+B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+294))+B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+293)) \\
&= B_{\bar{N}}(2N+296-(2N+256))+B_{\bar{N}}(2N+296-(2N-16))+B_{\bar{N}}(2N+296-(N+303)) \\
&= B_{\bar{N}}(40)+B_{\bar{N}}(312)+B_{\bar{N}}(N-7) = 40+312+(N-7) = N+345 \\
&(N \geq 312)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+297) &= B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+296))+B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+295))+B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+294)) \\
&= B_{\bar{N}}(2N+297-(N+345))+B_{\bar{N}}(2N+297-(2N+256))+B_{\bar{N}}(2N+297-(2N-16)) \\
&= B_{\bar{N}}(N-48)+B_{\bar{N}}(41)+B_{\bar{N}}(313) = (N-48)+41+313 = N+306 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+298) &= B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+297))+B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+296))+B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+295)) \\
&= B_{\bar{N}}(2N+298-(N+306))+B_{\bar{N}}(2N+298-(N+345))+B_{\bar{N}}(2N+298-(2N+256)) \\
&= B_{\bar{N}}(N-8)+B_{\bar{N}}(N-47)+B_{\bar{N}}(42) = (N-8)+(N-47)+42 = 2N-13 \\
&(N \geq 48)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+299) &= B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+298))+B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+297))+B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+296)) \\
&= B_{\bar{N}}(2N+299-(2N-13))+B_{\bar{N}}(2N+299-(N+306))+B_{\bar{N}}(2N+299-(N+345)) \\
&= B_{\bar{N}}(312)+B_{\bar{N}}(N-7)+B_{\bar{N}}(N-46) = 312+(N-7)+(N-46) = 2N+259 \\
&(N \geq 312)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+300) &= B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+299))+B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+298))+B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+297)) \\
&= B_{\bar{N}}(2N+300-(2N+259))+B_{\bar{N}}(2N+300-(2N-13))+B_{\bar{N}}(2N+300-(N+306)) \\
&= B_{\bar{N}}(41)+B_{\bar{N}}(313)+B_{\bar{N}}(N-6) = 41+313+(N-6) = N+348 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+301) &= B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+300))+B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+299))+B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+298)) \\
&= B_{\bar{N}}(2N+301-(N+348))+B_{\bar{N}}(2N+301-(2N+259))+B_{\bar{N}}(2N+301-(2N-13)) \\
&= B_{\bar{N}}(N-47)+B_{\bar{N}}(42)+B_{\bar{N}}(314) = (N-47)+42+314 = N+309 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+302) &= B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+301))+B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+300))+B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+299)) \\
&= B_{\bar{N}}(2N+302-(N+309))+B_{\bar{N}}(2N+302-(N+348))+B_{\bar{N}}(2N+302-(2N+259)) \\
&= B_{\bar{N}}(N-7)+B_{\bar{N}}(N-46)+B_{\bar{N}}(43) = (N-7)+(N-46)+43 = 2N-10 \\
&(N \geq 47)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+303) &= B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+302))+B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+301))+B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+300)) \\
&= B_{\bar{N}}(2N+303-(2N-10))+B_{\bar{N}}(2N+303-(N+309))+B_{\bar{N}}(2N+303-(N+348)) \\
&= B_{\bar{N}}(313)+B_{\bar{N}}(N-6)+B_{\bar{N}}(N-45) = 313+(N-6)+(N-45) = 2N+262 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+304) &= B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+303))+B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+302))+B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+301)) \\
&= B_{\bar{N}}(2N+304-(2N+262))+B_{\bar{N}}(2N+304-(2N-10))+B_{\bar{N}}(2N+304-(N+309)) \\
&= B_{\bar{N}}(42)+B_{\bar{N}}(314)+B_{\bar{N}}(N-5) = 42+314+(N-5) = N+351 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+305) &= B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+304))+B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+303))+B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+302)) \\
&= B_{\bar{N}}(2N+305-(N+351))+B_{\bar{N}}(2N+305-(2N+262))+B_{\bar{N}}(2N+305-(2N-10)) \\
&= B_{\bar{N}}(N-46)+B_{\bar{N}}(43)+B_{\bar{N}}(315) = (N-46)+43+315 = N+312 \\
&(N \geq 315)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+306) &= B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+305))+B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+304))+B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+303)) \\
&= B_{\bar{N}}(2N+306-(N+312))+B_{\bar{N}}(2N+306-(N+351))+B_{\bar{N}}(2N+306-(2N+262)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(N-45)+B_{\bar{N}}(44) = (N-6)+(N-45)+44 = 2N-7 \\
&(N \geq 46)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+307) &= B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+306))+B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+305))+B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+304)) \\
&= B_{\bar{N}}(2N+307-(2N-7))+B_{\bar{N}}(2N+307-(N+312))+B_{\bar{N}}(2N+307-(N+351)) \\
&= B_{\bar{N}}(314)+B_{\bar{N}}(N-5)+B_{\bar{N}}(N-44) = 314+(N-5)+(N-44) = 2N+265 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+308) &= B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+307))+B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+306))+B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+305)) \\
&= B_{\bar{N}}(2N+308-(2N+265))+B_{\bar{N}}(2N+308-(2N-7))+B_{\bar{N}}(2N+308-(N+312)) \\
&= B_{\bar{N}}(43)+B_{\bar{N}}(315)+B_{\bar{N}}(N-4) = 43+315+(N-4) = N+354 \\
&(N \geq 315)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+309) &= B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+308))+B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+307))+B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+306)) \\
&= B_{\bar{N}}(2N+309-(N+354))+B_{\bar{N}}(2N+309-(2N+265))+B_{\bar{N}}(2N+309-(2N-7)) \\
&= B_{\bar{N}}(N-45)+B_{\bar{N}}(44)+B_{\bar{N}}(316) = (N-45)+44+316 = N+315 \\
&(N \geq 316)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+310) &= B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+309))+B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+308))+B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+307)) \\
&= B_{\bar{N}}(2N+310-(N+315))+B_{\bar{N}}(2N+310-(N+354))+B_{\bar{N}}(2N+310-(2N+265)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(N-44)+B_{\bar{N}}(45)=(N-5)+(N-44)+45=2N-4 \\
&(N \geq 45)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+311) &= B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+310))+B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+309))+B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+308)) \\
&= B_{\bar{N}}(2N+311-(2N-4))+B_{\bar{N}}(2N+311-(N+315))+B_{\bar{N}}(2N+311-(N+354)) \\
&= B_{\bar{N}}(315)+B_{\bar{N}}(N-4)+B_{\bar{N}}(N-43)=315+(N-4)+(N-43)=2N+268 \\
&(N \geq 315)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+312) &= B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+311))+B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+310))+B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+309)) \\
&= B_{\bar{N}}(2N+312-(2N+268))+B_{\bar{N}}(2N+312-(2N-4))+B_{\bar{N}}(2N+312-(N+315)) \\
&= B_{\bar{N}}(44)+B_{\bar{N}}(316)+B_{\bar{N}}(N-3)=44+316+(N-3)=N+357 \\
&(N \geq 316)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+313) &= B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+312))+B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+311))+B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+310)) \\
&= B_{\bar{N}}(2N+313-(N+357))+B_{\bar{N}}(2N+313-(2N+268))+B_{\bar{N}}(2N+313-(2N-4)) \\
&= B_{\bar{N}}(N-44)+B_{\bar{N}}(45)+B_{\bar{N}}(317)=(N-44)+45+317=N+318 \\
&(N \geq 317)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+314) &= B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+313))+B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+312))+B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+311)) \\
&= B_{\bar{N}}(2N+314-(N+318))+B_{\bar{N}}(2N+314-(N+357))+B_{\bar{N}}(2N+314-(2N+268)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N-43)+B_{\bar{N}}(46)=(N-4)+(N-43)+46=2N-1 \\
&(N \geq 46)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+315) &= B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+314))+B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+313))+B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+312)) \\
&= B_{\bar{N}}(2N+315-(2N-1))+B_{\bar{N}}(2N+315-(N+318))+B_{\bar{N}}(2N+315-(N+357)) \\
&= B_{\bar{N}}(316)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N-42) = 316+(N-3)+(N-42) = 2N+271 \\
&(N \geq 316)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+316) &= B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+315))+B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+314))+B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+313)) \\
&= B_{\bar{N}}(2N+316-(2N+271))+B_{\bar{N}}(2N+316-(2N-1))+B_{\bar{N}}(2N+316-(N+318)) \\
&= B_{\bar{N}}(45)+B_{\bar{N}}(317)+B_{\bar{N}}(N-2) = 45+317+(N-2) = N+360 \\
&(N \geq 317)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+317) &= B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+316))+B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+315))+B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+314)) \\
&= B_{\bar{N}}(2N+317-(N+360))+B_{\bar{N}}(2N+317-(2N+271))+B_{\bar{N}}(2N+317-(2N-1)) \\
&= B_{\bar{N}}(N-43)+B_{\bar{N}}(46)+B_{\bar{N}}(318) = (N-43)+46+318 = N+321 \\
&(N \geq 318)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+318) &= B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+317))+B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+316))+B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+315)) \\
&= B_{\bar{N}}(2N+318-(N+321))+B_{\bar{N}}(2N+318-(N+360))+B_{\bar{N}}(2N+318-(2N+271)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N-42)+B_{\bar{N}}(47) = (N-3)+(N-42)+47 = 2N+2 \\
&(N \geq 47)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+319) &= B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+318))+B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+317))+B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+316)) \\
&= B_{\bar{N}}(2N+319-(2N+2))+B_{\bar{N}}(2N+319-(N+321))+B_{\bar{N}}(2N+319-(N+360)) \\
&= B_{\bar{N}}(317)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N-41) = 317+(N-2)+(N-41) = 2N+274 \\
&(N \geq 317)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+320) &= B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+319))+B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+318))+B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+317)) \\
&= B_{\bar{N}}(2N+320-(2N+274))+B_{\bar{N}}(2N+320-(2N+2))+B_{\bar{N}}(2N+320-(N+321)) \\
&= B_{\bar{N}}(46)+B_{\bar{N}}(318)+B_{\bar{N}}(N-1) = 46+318+(N-1) = N+363 \\
&(N \geq 318)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+321) &= B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+320))+B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+319))+B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+318)) \\
&= B_{\bar{N}}(2N+321-(N+363))+B_{\bar{N}}(2N+321-(2N+274))+B_{\bar{N}}(2N+321-(2N+2)) \\
&= B_{\bar{N}}(N-42)+B_{\bar{N}}(47)+B_{\bar{N}}(319) = (N-42)+47+319 = N+324 \\
&(N \geq 319)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+322) &= B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+321))+B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+320))+B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+319)) \\
&= B_{\bar{N}}(2N+322-(N+324))+B_{\bar{N}}(2N+322-(N+363))+B_{\bar{N}}(2N+322-(2N+274)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N-41)+B_{\bar{N}}(48) = (N-2)+(N-41)+48 = 2N+5 \\
&(N \geq 48)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+323) &= B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+322))+B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+321))+B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+320)) \\
&= B_{\bar{N}}(2N+323-(2N+5))+B_{\bar{N}}(2N+323-(N+324))+B_{\bar{N}}(2N+323-(N+363)) \\
&= B_{\bar{N}}(318)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N-40) = 318+(N-1)+(N-40) = 2N+277 \\
&(N \geq 318)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+324) &= B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+323))+B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+322))+B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+321)) \\
&= B_{\bar{N}}(2N+324-(2N+277))+B_{\bar{N}}(2N+324-(2N+5))+B_{\bar{N}}(2N+324-(N+324)) \\
&= B_{\bar{N}}(47)+B_{\bar{N}}(319)+B_{\bar{N}}(N) = 47+319+N = N+366 \\
&(N \geq 319)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+325) &= B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+324))+B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+323))+B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+322)) \\
&= B_{\bar{N}}(2N+325-(N+366))+B_{\bar{N}}(2N+325-(2N+277))+B_{\bar{N}}(2N+325-(2N+5)) \\
&= B_{\bar{N}}(N-41)+B_{\bar{N}}(48)+B_{\bar{N}}(320) = (N-41)+48+320 = N+327 \\
&(N \geq 320)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+326) &= B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+325))+B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+324))+B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+323)) \\
&= B_{\bar{N}}(2N+326-(N+327))+B_{\bar{N}}(2N+326-(N+366))+B_{\bar{N}}(2N+326-(2N+277)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(N-40)+B_{\bar{N}}(49) = (N-1)+(N-40)+49 = 2N+8 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+327) &= B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+326))+B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+325))+B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+324)) \\
&= B_{\bar{N}}(2N+327-(2N+8))+B_{\bar{N}}(2N+327-(N+327))+B_{\bar{N}}(2N+327-(N+366)) \\
&= B_{\bar{N}}(319)+B_{\bar{N}}(N)+B_{\bar{N}}(N-39) = 319+N+(N-39) = 2N+280 \\
&(N \geq 319)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+328) &= B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+327))+B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+326))+B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+325)) \\
&= B_{\bar{N}}(2N+328-(2N+280))+B_{\bar{N}}(2N+328-(2N+8))+B_{\bar{N}}(2N+328-(N+327)) \\
&= B_{\bar{N}}(48)+B_{\bar{N}}(320)+B_{\bar{N}}(N+1) = 48+320+6 = 374 \\
&(N \geq 320)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+329) &= B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+328))+B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+327))+B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+326)) \\
&= B_{\bar{N}}(2N+329-374)+B_{\bar{N}}(2N+329-(2N+280))+B_{\bar{N}}(2N+329-(2N+8)) \\
&= B_{\bar{N}}(2N-45)+B_{\bar{N}}(49)+B_{\bar{N}}(321) = (N-2)+49+321 = N+368 \\
&(N \geq 321)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+330) &= B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+329))+B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+328))+B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+327)) \\
&= B_{\bar{N}}(2N+330-(N+368))+B_{\bar{N}}(2N+330-374)+B_{\bar{N}}(2N+330-(2N+280)) \\
&= B_{\bar{N}}(N-38)+B_{\bar{N}}(2N-44)+B_{\bar{N}}(50) = (N-38)+(N-42)+50 = 2N-30 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+331) &= B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+330))+B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+329))+B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+328)) \\
&= B_{\bar{N}}(2N+331-(2N-30))+B_{\bar{N}}(2N+331-(N+368))+B_{\bar{N}}(2N+331-374) \\
&= B_{\bar{N}}(361)+B_{\bar{N}}(N-37)+B_{\bar{N}}(2N-43) = 361+(N-37)+(2N-42) = 3N+282 \\
&(N \geq 361)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+332) &= B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+331))+B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+330))+B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+329)) \\
&= B_{\bar{N}}(2N+332-(3N+282))+B_{\bar{N}}(2N+332-(2N-30))+B_{\bar{N}}(2N+332-(N+368)) \\
&= B_{\bar{N}}(-N+50)+B_{\bar{N}}(362)+B_{\bar{N}}(N-36) = 0+362+(N-36) = N+326 \\
&(N \geq 362)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+333) &= B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+332))+B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+331))+B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+330)) \\
&= B_{\bar{N}}(2N+333-(N+326))+B_{\bar{N}}(2N+333-(3N+282))+B_{\bar{N}}(2N+333-(2N-30)) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}(-N+51)+B_{\bar{N}}(363) = (N+5)+0+363 = N+368 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+334) &= B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+333))+B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+332))+B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+331)) \\
&= B_{\bar{N}}(2N+334-(N+368))+B_{\bar{N}}(2N+334-(N+326))+B_{\bar{N}}(2N+334-(3N+282)) \\
&= B_{\bar{N}}(N-34)+B_{\bar{N}}(N+8)+B_{\bar{N}}(-N+52) = (N-34)+(N+6)+0 = 2N-28 \\
&(N \geq 52)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+335) &= B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+334))+B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+333))+B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+332)) \\
&= B_{\bar{N}}(2N+335-(2N-28))+B_{\bar{N}}(2N+335-(N+368))+B_{\bar{N}}(2N+335-(N+326)) \\
&= B_{\bar{N}}(363)+B_{\bar{N}}(N-33)+B_{\bar{N}}(N+9) = 363+(N-33)+12 = N+342 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+336) &= B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+335))+B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+334))+B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+333)) \\
&= B_{\bar{N}}(2N+336-(N+342))+B_{\bar{N}}(2N+336-(2N-28))+B_{\bar{N}}(2N+336-(N+368)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(364)+B_{\bar{N}}(N-32) = (N-6)+364+(N-32) = 2N+326 \\
&(N \geq 364)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+337) &= B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+336))+B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+335))+B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+334)) \\
&= B_{\bar{N}}(2N+337-(2N+326))+B_{\bar{N}}(2N+337-(N+342))+B_{\bar{N}}(2N+337-(2N-28)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N-5)+B_{\bar{N}}(365) = 11+(N-5)+365 = N+371 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+338) &= B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+337))+B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+336))+B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+335)) \\
&= B_{\bar{N}}(2N+338-(N+371))+B_{\bar{N}}(2N+338-(2N+326))+B_{\bar{N}}(2N+338-(N+342)) \\
&= B_{\bar{N}}(N-33)+B_{\bar{N}}(12)+B_{\bar{N}}(N-4) = (N-33)+12+(N-4) = 2N-25 \\
&(N \geq 34)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+339) &= B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+338))+B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+337))+B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+336)) \\
&= B_{\bar{N}}(2N+339-(2N-25))+B_{\bar{N}}(2N+339-(N+371))+B_{\bar{N}}(2N+339-(2N+326)) \\
&= B_{\bar{N}}(364)+B_{\bar{N}}(N-32)+B_{\bar{N}}(13) = 364+(N-32)+13 = N+345 \\
&(N \geq 364)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+340) &= B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+339))+B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+338))+B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+337)) \\
&= B_{\bar{N}}(2N+340-(N+345))+B_{\bar{N}}(2N+340-(2N-25))+B_{\bar{N}}(2N+340-(N+371)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(365)+B_{\bar{N}}(N-31) = (N-5)+365+(N-31) = 2N+329 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+341) &= B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+340))+B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+339))+B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+338)) \\
&= B_{\bar{N}}(2N+341-(2N+329))+B_{\bar{N}}(2N+341-(N+345))+B_{\bar{N}}(2N+341-(2N-25)) \\
&= B_{\bar{N}}(12)+B_{\bar{N}}(N-4)+B_{\bar{N}}(366) = 12+(N-4)+366 = N+374 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+342) &= B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+341))+B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+340))+B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+339)) \\
&= B_{\bar{N}}(2N+342-(N+374))+B_{\bar{N}}(2N+342-(2N+329))+B_{\bar{N}}(2N+342-(N+345)) \\
&= B_{\bar{N}}(N-32)+B_{\bar{N}}(13)+B_{\bar{N}}(N-3) = (N-32)+13+(N-3) = 2N-22 \\
&(N \geq 33)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+343) &= B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+342))+B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+341))+B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+340)) \\
&= B_{\bar{N}}(2N+343-(2N-22))+B_{\bar{N}}(2N+343-(N+374))+B_{\bar{N}}(2N+343-(2N+329)) \\
&= B_{\bar{N}}(365)+B_{\bar{N}}(N-31)+B_{\bar{N}}(14) = 365+(N-31)+14 = N+348 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+344) &= B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+343))+B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+342))+B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+341)) \\
&= B_{\bar{N}}(2N+344-(N+348))+B_{\bar{N}}(2N+344-(2N-22))+B_{\bar{N}}(2N+344-(N+374)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(366)+B_{\bar{N}}(N-30) = (N-4)+366+(N-30) = 2N+332 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+345) &= B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+344))+B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+343))+B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+342)) \\
&= B_{\bar{N}}(2N+345-(2N+332))+B_{\bar{N}}(2N+345-(N+348))+B_{\bar{N}}(2N+345-(2N-22)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(N-3)+B_{\bar{N}}(367) = 13+(N-3)+367 = N+377 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+346) &= B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+345))+B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+344))+B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+343)) \\
&= B_{\bar{N}}(2N+346-(N+377))+B_{\bar{N}}(2N+346-(2N+332))+B_{\bar{N}}(2N+346-(N+348)) \\
&= B_{\bar{N}}(N-31)+B_{\bar{N}}(14)+B_{\bar{N}}(N-2) = (N-31)+14+(N-2) = 2N-19 \\
&(N \geq 32)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+347) &= B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+346))+B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+345))+B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+344)) \\
&= B_{\bar{N}}(2N+347-(2N-19))+B_{\bar{N}}(2N+347-(N+377))+B_{\bar{N}}(2N+347-(2N+332)) \\
&= B_{\bar{N}}(366)+B_{\bar{N}}(N-30)+B_{\bar{N}}(15) = 366+(N-30)+15 = N+351 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+348) &= B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+347))+B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+346))+B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+345)) \\
&= B_{\bar{N}}(2N+348-(N+351))+B_{\bar{N}}(2N+348-(2N-19))+B_{\bar{N}}(2N+348-(N+377)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(367)+B_{\bar{N}}(N-29) = (N-3)+367+(N-29) = 2N+335 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+349) &= B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+348))+B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+347))+B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+346)) \\
&= B_{\bar{N}}(2N+349-(2N+335))+B_{\bar{N}}(2N+349-(N+351))+B_{\bar{N}}(2N+349-(2N-19)) \\
&= B_{\bar{N}}(14)+B_{\bar{N}}(N-2)+B_{\bar{N}}(368) = 14+(N-2)+368 = N+380 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+350) &= B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+349))+B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+348))+B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+347)) \\
&= B_{\bar{N}}(2N+350-(N+380))+B_{\bar{N}}(2N+350-(2N+335))+B_{\bar{N}}(2N+350-(N+351)) \\
&= B_{\bar{N}}(N-30)+B_{\bar{N}}(15)+B_{\bar{N}}(N-1)=(N-30)+15+(N-1)=2N-16 \\
&(N \geq 31)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+351) &= B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+350))+B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+349))+B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+348)) \\
&= B_{\bar{N}}(2N+351-(2N-16))+B_{\bar{N}}(2N+351-(N+380))+B_{\bar{N}}(2N+351-(2N+335)) \\
&= B_{\bar{N}}(367)+B_{\bar{N}}(N-29)+B_{\bar{N}}(16)=367+(N-29)+16=N+354 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+352) &= B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+351))+B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+350))+B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+349)) \\
&= B_{\bar{N}}(2N+352-(N+354))+B_{\bar{N}}(2N+352-(2N-16))+B_{\bar{N}}(2N+352-(N+380)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(368)+B_{\bar{N}}(N-28)=(N-2)+368+(N-28)=2N+338 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+353) &= B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+352))+B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+351))+B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+350)) \\
&= B_{\bar{N}}(2N+353-(2N+338))+B_{\bar{N}}(2N+353-(N+354))+B_{\bar{N}}(2N+353-(2N-16)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(N-1)+B_{\bar{N}}(369)=15+(N-1)+369=N+383 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+354) &= B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+353))+B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+352))+B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+351)) \\
&= B_{\bar{N}}(2N+354-(N+383))+B_{\bar{N}}(2N+354-(2N+338))+B_{\bar{N}}(2N+354-(N+354)) \\
&= B_{\bar{N}}(N-29)+B_{\bar{N}}(16)+B_{\bar{N}}(N)=(N-29)+16+N=2N-13 \\
&(N \geq 30)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+355) &= B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+354))+B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+353))+B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+352)) \\
&= B_{\bar{N}}(2N+355-(2N-13))+B_{\bar{N}}(2N+355-(N+383))+B_{\bar{N}}(2N+355-(2N+338)) \\
&= B_{\bar{N}}(368)+B_{\bar{N}}(N-28)+B_{\bar{N}}(17) = 368+(N-28)+17 = N+357 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+356) &= B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+355))+B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+354))+B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+353)) \\
&= B_{\bar{N}}(2N+356-(N+357))+B_{\bar{N}}(2N+356-(2N-13))+B_{\bar{N}}(2N+356-(N+383)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(369)+B_{\bar{N}}(N-27) = (N-1)+369+(N-27) = 2N+341 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+357) &= B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+356))+B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+355))+B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+354)) \\
&= B_{\bar{N}}(2N+357-(2N+341))+B_{\bar{N}}(2N+357-(N+357))+B_{\bar{N}}(2N+357-(2N-13)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N)+B_{\bar{N}}(370) = 16+N+370 = N+386 \\
&(N \geq 370)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+358) &= B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+357))+B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+356))+B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+355)) \\
&= B_{\bar{N}}(2N+358-(N+386))+B_{\bar{N}}(2N+358-(2N+341))+B_{\bar{N}}(2N+358-(N+357)) \\
&= B_{\bar{N}}(N-28)+B_{\bar{N}}(17)+B_{\bar{N}}(N+1) = (N-28)+17+6 = N-5 \\
&(N \geq 29)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+359) &= B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+358))+B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+357))+B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+356)) \\
&= B_{\bar{N}}(2N+359-(N-5))+B_{\bar{N}}(2N+359-(N+386))+B_{\bar{N}}(2N+359-(2N+341)) \\
&= B_{\bar{N}}(N+364)+B_{\bar{N}}(N-27)+B_{\bar{N}}(18) = 366+(N-27)+18 = N+357 \\
&(N \geq 28)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+360) &= B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+359))+B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+358))+B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+357)) \\
&= B_{\bar{N}}(2N+360-(N+357))+B_{\bar{N}}(2N+360-(N-5))+B_{\bar{N}}(2N+360-(N+386)) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(N+365)+B_{\bar{N}}(N-26)=(N+2)+(N+366)+(N-26)=3N+342 \\
&(N \geq 27)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+361) &= B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+360))+B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+359))+B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+358)) \\
&= B_{\bar{N}}(2N+361-(3N+342))+B_{\bar{N}}(2N+361-(N+357))+B_{\bar{N}}(2N+361-(N-5)) \\
&= B_{\bar{N}}(-N+19)+B_{\bar{N}}(N+4)+B_{\bar{N}}(N+366)=0+(N+3)+(N+368)=2N+371 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+362) &= B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+361))+B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+360))+B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+359)) \\
&= B_{\bar{N}}(2N+362-(2N+371))+B_{\bar{N}}(2N+362-(3N+342))+B_{\bar{N}}(2N+362-(N+357)) \\
&= B_{\bar{N}}(-9)+B_{\bar{N}}(-N+20)+B_{\bar{N}}(N+5)=0+0+9=9 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+363) &= B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+362))+B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+361))+B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+360)) \\
&= B_{\bar{N}}(2N+363-9)+B_{\bar{N}}(2N+363-(2N+371))+B_{\bar{N}}(2N+363-(3N+342)) \\
&= B_{\bar{N}}(2N+354)+B_{\bar{N}}(-8)+B_{\bar{N}}(-N+21)=(2N-13)+0+0=2N-13 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+364) &= B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+363))+B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+362))+B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+361)) \\
&= B_{\bar{N}}(2N+364-(2N-13))+B_{\bar{N}}(2N+364-9)+B_{\bar{N}}(2N+364-(2N+371)) \\
&= B_{\bar{N}}(377)+B_{\bar{N}}(2N+355)+B_{\bar{N}}(-7)=377+(N+357)+0=N+734 \\
&(N \geq 377)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+365) &= B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+364))+B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+363))+B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+362)) \\
&= B_{\bar{N}}(2N+365-(N+734))+B_{\bar{N}}(2N+365-(2N-13))+B_{\bar{N}}(2N+365-9) \\
&= B_{\bar{N}}(N-369)+B_{\bar{N}}(378)+B_{\bar{N}}(2N+356) = (N-369)+378+(2N+341) = 3N+350 \\
&(N \geq 378)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+366) &= B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+365))+B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+364))+B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+363)) \\
&= B_{\bar{N}}(2N+366-(3N+350))+B_{\bar{N}}(2N+366-(N+734))+B_{\bar{N}}(2N+366-(2N-13)) \\
&= B_{\bar{N}}(-N+16)+B_{\bar{N}}(N-368)+B_{\bar{N}}(379) = 0+(N-368)+379 = N+11 \\
&(N \geq 379)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+367) &= B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+366))+B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+365))+B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+364)) \\
&= B_{\bar{N}}(2N+367-(N+11))+B_{\bar{N}}(2N+367-(3N+350))+B_{\bar{N}}(2N+367-(N+734)) \\
&= B_{\bar{N}}(N+356)+B_{\bar{N}}(-N+17)+B_{\bar{N}}(N-367) = (N-2)+0+(N-367) = 2N-369 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+368) &= B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+367))+B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+366))+B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+365)) \\
&= B_{\bar{N}}(2N+368-(2N-369))+B_{\bar{N}}(2N+368-(N+11))+B_{\bar{N}}(2N+368-(3N+350)) \\
&= B_{\bar{N}}(737)+B_{\bar{N}}(N+357)+B_{\bar{N}}(-N+18) = 737+359+0 = 1096 \\
&(N \geq 737)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+369) &= B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+368))+B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+367))+B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+366)) \\
&= B_{\bar{N}}(2N+369-1096)+B_{\bar{N}}(2N+369-(2N-369))+B_{\bar{N}}(2N+369-(N+11)) \\
&= B_{\bar{N}}(2N-727)+B_{\bar{N}}(738)+B_{\bar{N}}(N+358) = 7+738+(N+359) = N+1104 \\
&(N \geq 794)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+370) &= B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+369))+B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+368))+B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+367)) \\
&= B_{\bar{N}}(2N+370-(N+1104))+B_{\bar{N}}(2N+370-1096)+B_{\bar{N}}(2N+370-(2N-369)) \\
&= B_{\bar{N}}(N-734)+B_{\bar{N}}(2N-726)+B_{\bar{N}}(739) = (N-734)+\left(\frac{16N}{7}-\frac{1145}{7}\right)+739 = \frac{23N}{7}-\frac{1110}{7} \\
&(N \geq 793)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+371) &= B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+370))+B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+369))+B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+368)) \\
&= B_{\bar{N}}\left(2N+371-\left(\frac{23N}{7}-\frac{1110}{7}\right)\right)+B_{\bar{N}}(2N+371-(N+1104))+B_{\bar{N}}(2N+371-1096) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3707}{7}\right)+B_{\bar{N}}(N-733)+B_{\bar{N}}(2N-725) = 0+(N-733)+\left(\frac{15N}{7}-\frac{779}{7}\right) = \frac{22N}{7}-\frac{5910}{7} \\
&(N \geq 792)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+372) &= B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+371))+B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+370))+B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+369)) \\
&= B_{\bar{N}}\left(2N+372-\left(\frac{22N}{7}-\frac{5910}{7}\right)\right)+B_{\bar{N}}\left(2N+372-\left(\frac{23N}{7}-\frac{1110}{7}\right)\right)+B_{\bar{N}}(2N+372-(N+1104)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8514}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3714}{7}\right)+B_{\bar{N}}(N-732) = 0+0+(N-732) = N-732 \\
&(N \geq 1065)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+373) &= B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+372))+B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+371))+B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+370)) \\
&= B_{\bar{N}}(2N+373-(N-732))+B_{\bar{N}}\left(2N+373-\left(\frac{22N}{7}-\frac{5910}{7}\right)\right)+B_{\bar{N}}\left(2N+373-\left(\frac{23N}{7}-\frac{1110}{7}\right)\right) \\
&= B_{\bar{N}}(N+1105)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8521}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3721}{7}\right) = (N-2)+0+0 = N-2 \\
&(N \geq 1066)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+374) &= B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+373))+B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+372))+B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+371)) \\
&= B_{\bar{N}}(2N+374-(N-2))+B_{\bar{N}}(2N+374-(N-732))+B_{\bar{N}}\left(2N+374-\left(\frac{22N}{7}-\frac{5910}{7}\right)\right) \\
&= B_{\bar{N}}(N+376)+B_{\bar{N}}(N+1106)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8528}{7}\right)=(2N+46)+1108+0=2N+1154 \\
&(N \geq 1066)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+375) &= B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+374))+B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+373))+B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+372)) \\
&= B_{\bar{N}}(2N+375-(2N+1154))+B_{\bar{N}}(2N+375-(N-2))+B_{\bar{N}}(2N+375-(N-732)) \\
&= B_{\bar{N}}(-779)+B_{\bar{N}}(N+377)+B_{\bar{N}}(N+1107)=0+(N-2)+(N+1108)=2N+1106 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+376) &= B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+375))+B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+374))+B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+373)) \\
&= B_{\bar{N}}(2N+376-(2N+1106))+B_{\bar{N}}(2N+376-(2N+1154))+B_{\bar{N}}(2N+376-(N-2)) \\
&= B_{\bar{N}}(-730)+B_{\bar{N}}(-778)+B_{\bar{N}}(N+378)=0+0+380=380 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+377) &= B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+376))+B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+375))+B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+374)) \\
&= B_{\bar{N}}(2N+377-380)+B_{\bar{N}}(2N+377-(2N+1106))+B_{\bar{N}}(2N+377-(2N+1154)) \\
&= B_{\bar{N}}(2N-3)+B_{\bar{N}}(-729)+B_{\bar{N}}(-777)=(N-2)+0+0=N-2 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+378) &= B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+377))+B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+376))+B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+375)) \\
&= B_{\bar{N}}(2N+378-(N-2))+B_{\bar{N}}(2N+378-380)+B_{\bar{N}}(2N+378-(2N+1106)) \\
&= B_{\bar{N}}(N+380)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(-728)=(N+382)+N+0=2N+382 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+379) &= B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+378))+B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+377))+B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+376)) \\
&= B_{\bar{N}}(2N+379-(2N+382))+B_{\bar{N}}(2N+379-(N-2))+B_{\bar{N}}(2N+379-380) \\
&= B_{\bar{N}}(-3)+B_{\bar{N}}(N+381)+B_{\bar{N}}(2N-1) = 0+7+(N+5) = N+12 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+380) &= B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+379))+B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+378))+B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+377)) \\
&= B_{\bar{N}}(2N+380-(N+12))+B_{\bar{N}}(2N+380-(2N+382))+B_{\bar{N}}(2N+380-(N-2)) \\
&= B_{\bar{N}}(N+368)+B_{\bar{N}}(-2)+B_{\bar{N}}(N+382) = (2N+149)+0+(2N+153) = 4N+302 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+381) &= B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+380))+B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+379))+B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+378)) \\
&= B_{\bar{N}}(2N+381-(4N+302))+B_{\bar{N}}(2N+381-(N+12))+B_{\bar{N}}(2N+381-(2N+382)) \\
&= B_{\bar{N}}(-2N+79)+B_{\bar{N}}(N+369)+B_{\bar{N}}(-1) = 0+(2N+45)+0 = 2N+45 \\
&(N \geq 40)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+382) &= B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+381))+B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+380))+B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+379)) \\
&= B_{\bar{N}}(2N+382-(2N+45))+B_{\bar{N}}(2N+382-(4N+302))+B_{\bar{N}}(2N+382-(N+12)) \\
&= B_{\bar{N}}(337)+B_{\bar{N}}(-2N+80)+B_{\bar{N}}(N+370) = 337+0+(N-2) = N+335 \\
&(N \geq 337)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+383) &= B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+382))+B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+381))+B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+380)) \\
&= B_{\bar{N}}(2N+383-(N+335))+B_{\bar{N}}(2N+383-(2N+45))+B_{\bar{N}}(2N+383-(4N+302)) \\
&= B_{\bar{N}}(N+48)+B_{\bar{N}}(338)+B_{\bar{N}}(-2N+81) = (N+39)+338+0 = N+377 \\
&(N \geq 338)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+384) &= B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+383))+B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+382))+B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+381)) \\
&= B_{\bar{N}}(2N+384-(N+377))+B_{\bar{N}}(2N+384-(N+335))+B_{\bar{N}}(2N+384-(2N+45)) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}(N+49)+B_{\bar{N}}(339) = (N+5)+(N+47)+339 = 2N+391 \\
&(N \geq 339)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+385) &= B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+384))+B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+383))+B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+382)) \\
&= B_{\bar{N}}(2N+385-(2N+391))+B_{\bar{N}}(2N+385-(N+377))+B_{\bar{N}}(2N+385-(N+335)) \\
&= B_{\bar{N}}(-6)+B_{\bar{N}}(N+8)+B_{\bar{N}}(N+50) = 0+(N+6)+(N+27) = 2N+33 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+386) &= B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+385))+B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+384))+B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+383)) \\
&= B_{\bar{N}}(2N+386-(2N+33))+B_{\bar{N}}(2N+386-(2N+391))+B_{\bar{N}}(2N+386-(N+377)) \\
&= B_{\bar{N}}(353)+B_{\bar{N}}(-5)+B_{\bar{N}}(N+9) = 353+0+12 = 365 \\
&(N \geq 353)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+387) &= B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+386))+B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+385))+B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+384)) \\
&= B_{\bar{N}}(2N+387-365)+B_{\bar{N}}(2N+387-(2N+33))+B_{\bar{N}}(2N+387-(2N+391)) \\
&= B_{\bar{N}}(2N+22)+B_{\bar{N}}(354)+B_{\bar{N}}(-4) = (2N+15)+354+0 = 2N+369 \\
&(N \geq 354)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+388) &= B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+387))+B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+386))+B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+385)) \\
&= B_{\bar{N}}(2N+388-(2N+369))+B_{\bar{N}}(2N+388-365)+B_{\bar{N}}(2N+388-(2N+33)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(2N+23)+B_{\bar{N}}(355) = 19+(3N+10)+355 = 3N+384 \\
&(N \geq 355)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+389) &= B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+388))+B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+387))+B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+386)) \\
&= B_{\bar{N}}(2N+389-(3N+384))+B_{\bar{N}}(2N+389-(2N+369))+B_{\bar{N}}(2N+389-365) \\
&= B_{\bar{N}}(-N+5)+B_{\bar{N}}(20)+B_{\bar{N}}(2N+24) = 0+20+16 = 36 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+390) &= B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+389))+B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+388))+B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+387)) \\
&= B_{\bar{N}}(2N+390-36)+B_{\bar{N}}(2N+390-(3N+384))+B_{\bar{N}}(2N+390-(2N+369)) \\
&= B_{\bar{N}}(2N+354)+B_{\bar{N}}(-N+6)+B_{\bar{N}}(21) = (2N-13)+0+21 = 2N+8 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+391) &= B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+390))+B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+389))+B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+388)) \\
&= B_{\bar{N}}(2N+391-(2N+8))+B_{\bar{N}}(2N+391-36)+B_{\bar{N}}(2N+391-(3N+384)) \\
&= B_{\bar{N}}(383)+B_{\bar{N}}(2N+355)+B_{\bar{N}}(-N+7) = 383+(N+357)+0 = N+740 \\
&(N \geq 383)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+392) &= B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+391))+B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+390))+B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+389)) \\
&= B_{\bar{N}}(2N+392-(N+740))+B_{\bar{N}}(2N+392-(2N+8))+B_{\bar{N}}(2N+392-36) \\
&= B_{\bar{N}}(N-348)+B_{\bar{N}}(384)+B_{\bar{N}}(2N+356) = (N-348)+384+(2N+341) = 3N+377 \\
&(N \geq 384)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+393) &= B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+392))+B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+391))+B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+390)) \\
&= B_{\bar{N}}(2N+393-(3N+377))+B_{\bar{N}}(2N+393-(N+740))+B_{\bar{N}}(2N+393-(2N+8)) \\
&= B_{\bar{N}}(-N+16)+B_{\bar{N}}(N-347)+B_{\bar{N}}(385) = 0+(N-347)+385 = N+38 \\
&(N \geq 385)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+394) &= B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+393))+B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+392))+B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+391)) \\
&= B_{\bar{N}}(2N+394-(N+38))+B_{\bar{N}}(2N+394-(3N+377))+B_{\bar{N}}(2N+394-(N+740)) \\
&= B_{\bar{N}}(N+356)+B_{\bar{N}}(-N+17)+B_{\bar{N}}(N-346) = (N-2)+0+(N-346) = 2N-348 \\
&(N \geq 347)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+395) &= B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+394))+B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+393))+B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+392)) \\
&= B_{\bar{N}}(2N+395-(2N-348))+B_{\bar{N}}(2N+395-(N+38))+B_{\bar{N}}(2N+395-(3N+377)) \\
&= B_{\bar{N}}(743)+B_{\bar{N}}(N+357)+B_{\bar{N}}(-N+18) = 743+359+0 = 1102 \\
&(N \geq 743)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+396) &= B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+395))+B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+394))+B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+393)) \\
&= B_{\bar{N}}(2N+396-1102)+B_{\bar{N}}(2N+396-(2N-348))+B_{\bar{N}}(2N+396-(N+38)) \\
&= B_{\bar{N}}(2N-706)+B_{\bar{N}}(744)+B_{\bar{N}}(N+358) = 7+744+(N+359) = N+1110 \\
&(N \geq 773)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+397) &= B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+396))+B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+395))+B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+394)) \\
&= B_{\bar{N}}(2N+397-(N+1110))+B_{\bar{N}}(2N+397-1102)+B_{\bar{N}}(2N+397-(2N-348)) \\
&= B_{\bar{N}}(N-713)+B_{\bar{N}}(2N-705)+B_{\bar{N}}(745) = (N-713)+\left(\frac{16N}{7}-\frac{1103}{7}\right)+745 = \frac{23N}{7}-\frac{879}{7} \\
&(N \geq 772)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+398) &= B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+397))+B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+396))+B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+395)) \\
&= B_{\bar{N}}\left(2N+398-\left(\frac{23N}{7}-\frac{879}{7}\right)\right)+B_{\bar{N}}(2N+398-(N+1110))+B_{\bar{N}}(2N+398-1102) \\
&= B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3665}{7}\right)+B_{\bar{N}}(N-712)+B_{\bar{N}}(2N-704) = 0+(N-712)+\left(\frac{15N}{7}-\frac{758}{7}\right) = \frac{22N}{7}-\frac{5742}{7} \\
&(N \geq 771)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+399) &= B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+398))+B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+397))+B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+396)) \\
&= B_{\bar{N}}\left(2N+399-\left(\frac{22N}{7}-\frac{5742}{7}\right)\right)+B_{\bar{N}}\left(2N+399-\left(\frac{23N}{7}-\frac{879}{7}\right)\right)+B_{\bar{N}}(2N+399-(N+1110)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8535}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3672}{7}\right)+B_{\bar{N}}(N-711)=0+0+(N-711)=N-711 \\
&(N\geq 1067)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+400) &= B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+399))+B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+398))+B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+397)) \\
&= B_{\bar{N}}(2N+400-(N-711))+B_{\bar{N}}\left(2N+400-\left(\frac{22N}{7}-\frac{5742}{7}\right)\right)+B_{\bar{N}}\left(2N+400-\left(\frac{23N}{7}-\frac{879}{7}\right)\right) \\
&= B_{\bar{N}}(N+1111)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8542}{7}\right)+B_{\bar{N}}\left(-\frac{9N}{7}+\frac{3679}{7}\right)=(2N+151)+0+0=2N+151 \\
&(N\geq 1068)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+401) &= B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+400))+B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+399))+B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+398)) \\
&= B_{\bar{N}}(2N+401-(2N+151))+B_{\bar{N}}(2N+401-(N-711))+B_{\bar{N}}\left(2N+401-\left(\frac{22N}{7}-\frac{5742}{7}\right)\right) \\
&= B_{\bar{N}}(250)+B_{\bar{N}}(N+1112)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{8549}{7}\right)=250+(N-2)+0=N+248 \\
&(N\geq 1069)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+402) &= B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+401))+B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+400))+B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+399)) \\
&= B_{\bar{N}}(2N+402-(N+248))+B_{\bar{N}}(2N+402-(2N+151))+B_{\bar{N}}(2N+402-(N-711)) \\
&= B_{\bar{N}}(N+154)+B_{\bar{N}}(251)+B_{\bar{N}}(N+1113)=156+251+1115=1522 \\
&(N\geq 251)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+403) &= B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+402))+B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+401))+B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+400)) \\
&= B_{\bar{N}}(2N+403-1522)+B_{\bar{N}}(2N+403-(N+248))+B_{\bar{N}}(2N+403-(2N+151)) \\
&= B_{\bar{N}}(2N-1119)+B_{\bar{N}}(N+155)+B_{\bar{N}}(252) = 7+(N+156)+252 = N+415 \\
&(N \geq 1186)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+404) &= B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+403))+B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+402))+B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+401)) \\
&= B_{\bar{N}}(2N+404-(N+415))+B_{\bar{N}}(2N+404-1522)+B_{\bar{N}}(2N+404-(N+248)) \\
&= B_{\bar{N}}(N-11)+B_{\bar{N}}(2N-1118)+B_{\bar{N}}(N+156) = (N-11)+\left(\frac{16N}{7}-\frac{1929}{7}\right)+(N+158) = \frac{30N}{7}-\frac{900}{7} \\
&(N \geq 1185)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+405) &= B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+404))+B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+403))+B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+402)) \\
&= B_{\bar{N}}\left(2N+405-\left(\frac{30N}{7}-\frac{900}{7}\right)\right)+B_{\bar{N}}(2N+405-(N+415))+B_{\bar{N}}(2N+405-1522) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}+\frac{3735}{7}\right)+B_{\bar{N}}(N-10)+B_{\bar{N}}(2N-1117) = 0+(N-10)+\left(\frac{15N}{7}-\frac{1171}{7}\right) = \frac{22N}{7}-\frac{1241}{7} \\
&(N \geq 1184)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+406) &= B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+405))+B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+404))+B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+403)) \\
&= B_{\bar{N}}\left(2N+406-\left(\frac{22N}{7}-\frac{1241}{7}\right)\right)+B_{\bar{N}}\left(2N+406-\left(\frac{30N}{7}-\frac{900}{7}\right)\right)+B_{\bar{N}}(2N+406-(N+415)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{4083}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}+\frac{3742}{7}\right)+B_{\bar{N}}(N-9) = 0+0+(N-9) = N-9 \\
&(N \geq 511)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+407) &= B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+406))+B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+405))+B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+404)) \\
&= B_{\bar{N}}(2N+407-(N-9))+B_{\bar{N}}\left(2N+407-\left(\frac{22N}{7}-\frac{1241}{7}\right)\right)+B_{\bar{N}}\left(2N+407-\left(\frac{30N}{7}-\frac{900}{7}\right)\right) \\
&= B_{\bar{N}}(N+416)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{4090}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}+\frac{3749}{7}\right)=7+0+0=7 \\
&(N \geq 512)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+408) &= B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+407))+B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+406))+B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+405)) \\
&= B_{\bar{N}}(2N+408-7)+B_{\bar{N}}(2N+408-(N-9))+B_{\bar{N}}\left(2N+408-\left(\frac{22N}{7}-\frac{1241}{7}\right)\right) \\
&= B_{\bar{N}}(2N+401)+B_{\bar{N}}(N+417)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{4097}{7}\right)=(N+248)+(2N+163)+0=3N+411 \\
&(N \geq 513)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+409) &= B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+408))+B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+407))+B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+406)) \\
&= B_{\bar{N}}(2N+409-(3N+411))+B_{\bar{N}}(2N+409-7)+B_{\bar{N}}(2N+409-(N-9)) \\
&= B_{\bar{N}}(-N-2)+B_{\bar{N}}(2N+402)+B_{\bar{N}}(N+418)=0+1522+(2N+52)=2N+1574 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+410) &= B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+409))+B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+408))+B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+407)) \\
&= B_{\bar{N}}(2N+410-(2N+1574))+B_{\bar{N}}(2N+410-(3N+411))+B_{\bar{N}}(2N+410-7) \\
&= B_{\bar{N}}(-1164)+B_{\bar{N}}(-N-1)+B_{\bar{N}}(2N+403)=0+0+(N+415)=N+415 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+411) &= B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+410))+B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+409))+B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+408)) \\
&= B_{\bar{N}}(2N+411-(N+415))+B_{\bar{N}}(2N+411-(2N+1574))+B_{\bar{N}}(2N+411-(3N+411)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(-1163)+B_{\bar{N}}(-N) = (N-4)+0+0 = N-4 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+412) &= B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+411))+B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+410))+B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+409)) \\
&= B_{\bar{N}}(2N+412-(N-4))+B_{\bar{N}}(2N+412-(N+415))+B_{\bar{N}}(2N+412-(2N+1574)) \\
&= B_{\bar{N}}(N+416)+B_{\bar{N}}(N-3)+B_{\bar{N}}(-1162) = 7+(N-3)+0 = N+4 \\
&(N \geq 4)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+413) &= B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+412))+B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+411))+B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+410)) \\
&= B_{\bar{N}}(2N+413-(N+4))+B_{\bar{N}}(2N+413-(N-4))+B_{\bar{N}}(2N+413-(N+415)) \\
&= B_{\bar{N}}(N+409)+B_{\bar{N}}(N+417)+B_{\bar{N}}(N-2) = 7+(2N+163)+(N-2) = 3N+168 \\
&(N \geq 3)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+414) &= B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+413))+B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+412))+B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+411)) \\
&= B_{\bar{N}}(2N+414-(3N+168))+B_{\bar{N}}(2N+414-(N+4))+B_{\bar{N}}(2N+414-(N-4)) \\
&= B_{\bar{N}}(-N+246)+B_{\bar{N}}(N+410)+B_{\bar{N}}(N+418) = 0+(2N+161)+(2N+52) = 4N+213 \\
&(N \geq 246)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+415) &= B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+414))+B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+413))+B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+412)) \\
&= B_{\bar{N}}(2N+415-(4N+213))+B_{\bar{N}}(2N+415-(3N+168))+B_{\bar{N}}(2N+415-(N+4)) \\
&= B_{\bar{N}}(-2N+202)+B_{\bar{N}}(-N+247)+B_{\bar{N}}(N+411) = 0+0+(2N+51) = 2N+51 \\
&(N \geq 247)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+416) &= B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+415))+B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+414))+B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+413)) \\
&= B_{\bar{N}}(2N+416-(2N+51))+B_{\bar{N}}(2N+416-(4N+213))+B_{\bar{N}}(2N+416-(3N+168)) \\
&= B_{\bar{N}}(365)+B_{\bar{N}}(-2N+203)+B_{\bar{N}}(-N+248) = 365+0+0 = 365 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+417) &= B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+416))+B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+415))+B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+414)) \\
&= B_{\bar{N}}(2N+417-365)+B_{\bar{N}}(2N+417-(2N+51))+B_{\bar{N}}(2N+417-(4N+213)) \\
&= B_{\bar{N}}(2N+52)+B_{\bar{N}}(366)+B_{\bar{N}}(-2N+204) = 55+366+0 = 421 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+418) &= B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+417))+B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+416))+B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+415)) \\
&= B_{\bar{N}}(2N+418-421)+B_{\bar{N}}(2N+418-365)+B_{\bar{N}}(2N+418-(2N+51)) \\
&= B_{\bar{N}}(2N-3)+B_{\bar{N}}(2N+53)+B_{\bar{N}}(367) = (N-2)+(N+56)+367 = 2N+421 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+419) &= B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+418))+B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+417))+B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+416)) \\
&= B_{\bar{N}}(2N+419-(2N+421))+B_{\bar{N}}(2N+419-421)+B_{\bar{N}}(2N+419-365) \\
&= B_{\bar{N}}(-2)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(2N+54) = 0+N+(2N+60) = 3N+60 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+420) &= B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+419))+B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+418))+B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+417)) \\
&= B_{\bar{N}}(2N+420-(3N+60))+B_{\bar{N}}(2N+420-(2N+421))+B_{\bar{N}}(2N+420-421) \\
&= B_{\bar{N}}(-N+360)+B_{\bar{N}}(-1)+B_{\bar{N}}(2N-1) = 0+0+(N+5) = N+5 \\
&(N \geq 360)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+421) &= B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+420)) + B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+419)) + B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+418)) \\
&= B_{\bar{N}}(2N+421-(N+5)) + B_{\bar{N}}(2N+421-(3N+60)) + B_{\bar{N}}(2N+421-(2N+421)) \\
&= B_{\bar{N}}(N+416) + B_{\bar{N}}(-N+361) + B_{\bar{N}}(0) = 7+0+0 = 7 \\
&(N \geq 361)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+422) &= B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+421)) + B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+420)) + B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+419)) \\
&= B_{\bar{N}}(2N+422-7) + B_{\bar{N}}(2N+422-(N+5)) + B_{\bar{N}}(2N+422-(3N+60)) \\
&= B_{\bar{N}}(2N+415) + B_{\bar{N}}(N+417) + B_{\bar{N}}(-N+362) = (2N+51) + (2N+163) + 0 = 4N+214 \\
&(N \geq 362)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+423) &= B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+422)) + B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+421)) + B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+420)) \\
&= B_{\bar{N}}(2N+423-(4N+214)) + B_{\bar{N}}(2N+423-7) + B_{\bar{N}}(2N+423-(N+5)) \\
&= B_{\bar{N}}(-2N+209) + B_{\bar{N}}(2N+416) + B_{\bar{N}}(N+418) = 0+365+(2N+52) = 2N+417 \\
&(N \geq 105)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+424) &= B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+423)) + B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+422)) + B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+421)) \\
&= B_{\bar{N}}(2N+424-(2N+417)) + B_{\bar{N}}(2N+424-(4N+214)) + B_{\bar{N}}(2N+424-7) \\
&= B_{\bar{N}}(7) + B_{\bar{N}}(-2N+210) + B_{\bar{N}}(2N+417) = 7+0+421 = 428 \\
&(N \geq 105)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+425) &= B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+424)) + B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+423)) + B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+422)) \\
&= B_{\bar{N}}(2N+425-428) + B_{\bar{N}}(2N+425-(2N+417)) + B_{\bar{N}}(2N+425-(4N+214)) \\
&= B_{\bar{N}}(2N-3) + B_{\bar{N}}(8) + B_{\bar{N}}(-2N+211) = (N-2)+8+0 = N+6 \\
&(N \geq 106)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+426) &= B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+425))+B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+424))+B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+423)) \\
&= B_{\bar{N}}(2N+426-(N+6))+B_{\bar{N}}(2N+426-428)+B_{\bar{N}}(2N+426-(2N+417)) \\
&= B_{\bar{N}}(N+420)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(9) = 422+N+9 = N+431 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+427) &= B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+426))+B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+425))+B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+424)) \\
&= B_{\bar{N}}(2N+427-(N+431))+B_{\bar{N}}(2N+427-(N+6))+B_{\bar{N}}(2N+427-428) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N+421)+B_{\bar{N}}(2N-1) = (N-4)+(N+422)+(N+5) = 3N+423 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+428) &= B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+427))+B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+426))+B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+425)) \\
&= B_{\bar{N}}(2N+428-(3N+423))+B_{\bar{N}}(2N+428-(N+431))+B_{\bar{N}}(2N+428-(N+6)) \\
&= B_{\bar{N}}(-N+5)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N+422) = 0+(N-3)+(N+424) = 2N+421 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+429) &= B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+428))+B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+427))+B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+426)) \\
&= B_{\bar{N}}(2N+429-(2N+421))+B_{\bar{N}}(2N+429-(3N+423))+B_{\bar{N}}(2N+429-(N+431)) \\
&= B_{\bar{N}}(8)+B_{\bar{N}}(-N+6)+B_{\bar{N}}(N-2) = 8+0+(N-2) = N+6 \\
&(N \geq 8)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+430) &= B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+429))+B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+428))+B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+427)) \\
&= B_{\bar{N}}(2N+430-(N+6))+B_{\bar{N}}(2N+430-(2N+421))+B_{\bar{N}}(2N+430-(3N+423)) \\
&= B_{\bar{N}}(N+424)+B_{\bar{N}}(9)+B_{\bar{N}}(-N+7) = (2N+165)+9+0 = 2N+174 \\
&(N \geq 9)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+431) &= B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+430))+B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+429))+B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+428)) \\
&= B_{\bar{N}}(2N+431-(2N+174))+B_{\bar{N}}(2N+431-(N+6))+B_{\bar{N}}(2N+431-(2N+421)) \\
&= B_{\bar{N}}(257)+B_{\bar{N}}(N+425)+B_{\bar{N}}(10) = 257+(2N+53)+10 = 2N+320 \\
&(N \geq 257)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+432) &= B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+431))+B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+430))+B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+429)) \\
&= B_{\bar{N}}(2N+432-(2N+320))+B_{\bar{N}}(2N+432-(2N+174))+B_{\bar{N}}(2N+432-(N+6)) \\
&= B_{\bar{N}}(112)+B_{\bar{N}}(258)+B_{\bar{N}}(N+426) = 112+258+(N-2) = N+368 \\
&(N \geq 258)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+433) &= B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+432))+B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+431))+B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+430)) \\
&= B_{\bar{N}}(2N+433-(N+368))+B_{\bar{N}}(2N+433-(2N+320))+B_{\bar{N}}(2N+433-(2N+174)) \\
&= B_{\bar{N}}(N+65)+B_{\bar{N}}(113)+B_{\bar{N}}(259) = 61+113+259 = 433 \\
&(N \geq 259)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+434) &= B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+433))+B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+432))+B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+431)) \\
&= B_{\bar{N}}(2N+434-433)+B_{\bar{N}}(2N+434-(N+368))+B_{\bar{N}}(2N+434-(2N+320)) \\
&= B_{\bar{N}}(2N+1)+B_{\bar{N}}(N+66)+B_{\bar{N}}(114) = (N+2)+71+114 = N+187 \\
&(N \geq 114)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+435) &= B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+434))+B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+433))+B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+432)) \\
&= B_{\bar{N}}(2N+435-(N+187))+B_{\bar{N}}(2N+435-433)+B_{\bar{N}}(2N+435-(N+368)) \\
&= B_{\bar{N}}(N+248)+B_{\bar{N}}(2N+2)+B_{\bar{N}}(N+67) = 7+(2N-3)+(2N+63) = 4N+67 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+436) &= B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+435))+B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+434))+B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+433)) \\
&= B_{\bar{N}}(2N+436-(4N+67))+B_{\bar{N}}(2N+436-(N+187))+B_{\bar{N}}(2N+436-433) \\
&= B_{\bar{N}}(-2N+369)+B_{\bar{N}}(N+249)+B_{\bar{N}}(2N+3) = 0+(2N+115)+12 = 2N+127 \\
&(N \geq 185)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+437) &= B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+436))+B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+435))+B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+434)) \\
&= B_{\bar{N}}(2N+437-(2N+127))+B_{\bar{N}}(2N+437-(4N+67))+B_{\bar{N}}(2N+437-(N+187)) \\
&= B_{\bar{N}}(310)+B_{\bar{N}}(-2N+370)+B_{\bar{N}}(N+250) = 310+0+(2N+28) = 2N+338 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+438) &= B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+437))+B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+436))+B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+435)) \\
&= B_{\bar{N}}(2N+438-(2N+338))+B_{\bar{N}}(2N+438-(2N+127))+B_{\bar{N}}(2N+438-(4N+67)) \\
&= B_{\bar{N}}(100)+B_{\bar{N}}(311)+B_{\bar{N}}(-2N+371) = 100+311+0 = 411 \\
&(N \geq 311)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+439) &= B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+438))+B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+437))+B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+436)) \\
&= B_{\bar{N}}(2N+439-411)+B_{\bar{N}}(2N+439-(2N+338))+B_{\bar{N}}(2N+439-(2N+127)) \\
&= B_{\bar{N}}(2N+28)+B_{\bar{N}}(101)+B_{\bar{N}}(312) = (N+24)+101+312 = N+437 \\
&(N \geq 312)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+440) &= B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+439))+B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+438))+B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+437)) \\
&= B_{\bar{N}}(2N+440-(N+437))+B_{\bar{N}}(2N+440-411)+B_{\bar{N}}(2N+440-(2N+338)) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(2N+29)+B_{\bar{N}}(102) = (N+2)+32+102 = N+136 \\
&(N \geq 102)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+441) &= B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+440))+B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+439))+B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+438)) \\
&= B_{\bar{N}}(2N+441-(N+136))+B_{\bar{N}}(2N+441-(N+437))+B_{\bar{N}}(2N+441-411) \\
&= B_{\bar{N}}(N+305)+B_{\bar{N}}(N+4)+B_{\bar{N}}(2N+30) = (2N+131)+(N+3)+(2N+11) = 5N+145 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+442) &= B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+441))+B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+440))+B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+439)) \\
&= B_{\bar{N}}(2N+442-(5N+145))+B_{\bar{N}}(2N+442-(N+136))+B_{\bar{N}}(2N+442-(N+437)) \\
&= B_{\bar{N}}(-3N+297)+B_{\bar{N}}(N+306)+B_{\bar{N}}(N+5) = 0+(2N+36)+9 = 2N+45 \\
&(N \geq 99)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+443) &= B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+442))+B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+441))+B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+440)) \\
&= B_{\bar{N}}(2N+443-(2N+45))+B_{\bar{N}}(2N+443-(5N+145))+B_{\bar{N}}(2N+443-(N+136)) \\
&= B_{\bar{N}}(398)+B_{\bar{N}}(-3N+298)+B_{\bar{N}}(N+307) = 398+0+(N-2) = N+396 \\
&(N \geq 398)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+444) &= B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+443))+B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+442))+B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+441)) \\
&= B_{\bar{N}}(2N+444-(N+396))+B_{\bar{N}}(2N+444-(2N+45))+B_{\bar{N}}(2N+444-(5N+145)) \\
&= B_{\bar{N}}(N+48)+B_{\bar{N}}(399)+B_{\bar{N}}(-3N+299) = (N+39)+399+0 = N+438 \\
&(N \geq 399)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+445) &= B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+444))+B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+443))+B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+442)) \\
&= B_{\bar{N}}(2N+445-(N+438))+B_{\bar{N}}(2N+445-(N+396))+B_{\bar{N}}(2N+445-(2N+45)) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}(N+49)+B_{\bar{N}}(400) = (N+5)+(N+47)+400 = 2N+452 \\
&(N \geq 400)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+446) &= B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+445))+B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+444))+B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+443)) \\
&= B_{\bar{N}}(2N+446-(2N+452))+B_{\bar{N}}(2N+446-(N+438))+B_{\bar{N}}(2N+446-(N+396)) \\
&= B_{\bar{N}}(-6)+B_{\bar{N}}(N+8)+B_{\bar{N}}(N+50)=0+(N+6)+(N+27)=2N+33 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+447) &= B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+446))+B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+445))+B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+444)) \\
&= B_{\bar{N}}(2N+447-(2N+33))+B_{\bar{N}}(2N+447-(2N+452))+B_{\bar{N}}(2N+447-(N+438)) \\
&= B_{\bar{N}}(414)+B_{\bar{N}}(-5)+B_{\bar{N}}(N+9)=414+0+12=426 \\
&(N \geq 414)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+448) &= B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+447))+B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+446))+B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+445)) \\
&= B_{\bar{N}}(2N+448-426)+B_{\bar{N}}(2N+448-(2N+33))+B_{\bar{N}}(2N+448-(2N+452)) \\
&= B_{\bar{N}}(2N+22)+B_{\bar{N}}(415)+B_{\bar{N}}(-4)=(2N+15)+415+0=2N+430 \\
&(N \geq 415)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+449) &= B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+448))+B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+447))+B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+446)) \\
&= B_{\bar{N}}(2N+449-(2N+430))+B_{\bar{N}}(2N+449-426)+B_{\bar{N}}(2N+449-(2N+33)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(2N+23)+B_{\bar{N}}(416)=19+(3N+10)+416=3N+445 \\
&(N \geq 416)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+450) &= B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+449))+B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+448))+B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+447)) \\
&= B_{\bar{N}}(2N+450-(3N+445))+B_{\bar{N}}(2N+450-(2N+430))+B_{\bar{N}}(2N+450-426) \\
&= B_{\bar{N}}(-N+5)+B_{\bar{N}}(20)+B_{\bar{N}}(2N+24)=0+20+16=36 \\
&(N \geq 20)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+451) &= B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+450))+B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+449))+B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+448)) \\
&= B_{\bar{N}}(2N+451-36)+B_{\bar{N}}(2N+451-(3N+445))+B_{\bar{N}}(2N+451-(2N+430)) \\
&= B_{\bar{N}}(2N+415)+B_{\bar{N}}(-N+6)+B_{\bar{N}}(21)=(2N+51)+0+21=2N+72 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+452) &= B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+451))+B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+450))+B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+449)) \\
&= B_{\bar{N}}(2N+452-(2N+72))+B_{\bar{N}}(2N+452-36)+B_{\bar{N}}(2N+452-(3N+445)) \\
&= B_{\bar{N}}(380)+B_{\bar{N}}(2N+416)+B_{\bar{N}}(-N+7)=380+365+0=745 \\
&(N \geq 380)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+453) &= B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+452))+B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+451))+B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+450)) \\
&= B_{\bar{N}}(2N+453-745)+B_{\bar{N}}(2N+453-(2N+72))+B_{\bar{N}}(2N+453-36) \\
&= B_{\bar{N}}(2N-292)+B_{\bar{N}}(381)+B_{\bar{N}}(2N+417)=\left(\frac{16N}{7}-\frac{277}{7}\right)+381+421=\frac{16N}{7}+\frac{5337}{7} \\
&(N \geq 381)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+454) &= B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+453))+B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+452))+B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+451)) \\
&= B_{\bar{N}}\left(2N+454-\left(\frac{16N}{7}+\frac{5337}{7}\right)\right)+B_{\bar{N}}(2N+454-745)+B_{\bar{N}}(2N+454-(2N+72)) \\
&= B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2159}{7}\right)+B_{\bar{N}}(2N-291)+B_{\bar{N}}(382)=0+\left(\frac{15N}{7}-\frac{345}{7}\right)+382=\frac{15N}{7}+\frac{2329}{7} \\
&(N \geq 382)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+455) &= B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+454))+B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+453))+B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+452)) \\
&= B_{\bar{N}}\left(2N+455-\left(\frac{15N}{7}+\frac{2329}{7}\right)\right)+B_{\bar{N}}\left(2N+455-\left(\frac{16N}{7}+\frac{5337}{7}\right)\right)+B_{\bar{N}}(2N+455-745) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{856}{7}\right)+B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2152}{7}\right)+B_{\bar{N}}(2N-290)=0+0+(N-2)=N-2 \\
&(N\geq 856)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+456) &= B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+455))+B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+454))+B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+453)) \\
&= B_{\bar{N}}(2N+456-(N-2))+B_{\bar{N}}\left(2N+456-\left(\frac{15N}{7}+\frac{2329}{7}\right)\right)+B_{\bar{N}}\left(2N+456-\left(\frac{16N}{7}+\frac{5337}{7}\right)\right) \\
&= B_{\bar{N}}(N+458)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{863}{7}\right)+B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2145}{7}\right)=7+0+0=7 \\
&(N\geq 863)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+457) &= B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+456))+B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+455))+B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+454)) \\
&= B_{\bar{N}}(2N+457-7)+B_{\bar{N}}(2N+457-(N-2))+B_{\bar{N}}\left(2N+457-\left(\frac{15N}{7}+\frac{2329}{7}\right)\right) \\
&= B_{\bar{N}}(2N+450)+B_{\bar{N}}(N+459)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{870}{7}\right)=36+(2N+175)+0=2N+211 \\
&(N\geq 870)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+458) &= B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+457))+B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+456))+B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+455)) \\
&= B_{\bar{N}}(2N+458-(2N+211))+B_{\bar{N}}(2N+458-7)+B_{\bar{N}}(2N+458-(N-2)) \\
&= B_{\bar{N}}(247)+B_{\bar{N}}(2N+451)+B_{\bar{N}}(N+460)=247+(2N+72)+(2N+58)=4N+377 \\
&(N\geq 247)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+459) &= B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+458))+B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+457))+B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+456)) \\
&= B_{\bar{N}}(2N+459-(4N+377))+B_{\bar{N}}(2N+459-(2N+211))+B_{\bar{N}}(2N+459-7) \\
&= B_{\bar{N}}(-2N+82)+B_{\bar{N}}(248)+B_{\bar{N}}(2N+452) = 0+248+745 = 993 \\
&(N \geq 248)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+460) &= B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+459))+B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+458))+B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+457)) \\
&= B_{\bar{N}}(2N+460-993)+B_{\bar{N}}(2N+460-(4N+377))+B_{\bar{N}}(2N+460-(2N+211)) \\
&= B_{\bar{N}}(2N-533)+B_{\bar{N}}(-2N+83)+B_{\bar{N}}(249) = (2N-532)+0+249 = 2N-283 \\
&(N \geq 600)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+461) &= B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+460))+B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+459))+B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+458)) \\
&= B_{\bar{N}}(2N+461-(2N-283))+B_{\bar{N}}(2N+461-993)+B_{\bar{N}}(2N+461-(4N+377)) \\
&= B_{\bar{N}}(744)+B_{\bar{N}}(2N-532)+B_{\bar{N}}(-2N+84) = 744+(2N-530)+0 = 2N+214 \\
&(N \geq 744)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+462) &= B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+461))+B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+460))+B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+459)) \\
&= B_{\bar{N}}(2N+462-(2N+214))+B_{\bar{N}}(2N+462-(2N-283))+B_{\bar{N}}(2N+462-993) \\
&= B_{\bar{N}}(248)+B_{\bar{N}}(745)+B_{\bar{N}}(2N-531) = 248+745+7 = 1000 \\
&(N \geq 745)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+463) &= B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+462))+B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+461))+B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+460)) \\
&= B_{\bar{N}}(2N+463-1000)+B_{\bar{N}}(2N+463-(2N+214))+B_{\bar{N}}(2N+463-(2N-283)) \\
&= B_{\bar{N}}(2N-537)+B_{\bar{N}}(249)+B_{\bar{N}}(746) = \left(\frac{16N}{7}-\frac{767}{7}\right)+249+746 = \frac{16N}{7}+\frac{6198}{7} \\
&(N \geq 746)
\end{aligned}
$$

$$B_{\bar{N}}(2N+464) = B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+463)) + B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+462)) + B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+461))$$
$$= B_{\bar{N}}\left(2N+464-\left(\frac{16N}{7}+\frac{6198}{7}\right)\right) + B_{\bar{N}}(2N+464-1000) + B_{\bar{N}}(2N+464-(2N+214))$$
$$= B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2950}{7}\right) + B_{\bar{N}}(2N-536) + B_{\bar{N}}(250) = 0 + \left(\frac{15N}{7}-\frac{590}{7}\right) + 250 = \frac{15N}{7}+\frac{1160}{7}$$
$$(N \geq 603)$$

$$B_{\bar{N}}(2N+465) = B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+464)) + B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+463)) + B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+462))$$
$$= B_{\bar{N}}\left(2N+465-\left(\frac{15N}{7}+\frac{1160}{7}\right)\right) + B_{\bar{N}}\left(2N+465-\left(\frac{16N}{7}+\frac{6198}{7}\right)\right) + B_{\bar{N}}(2N+465-1000)$$
$$= B_{\bar{N}}\left(-\frac{N}{7}+\frac{2095}{7}\right) + B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2943}{7}\right) + B_{\bar{N}}(2N-535) = 0+0+(N-2) = N-2$$
$$(N \geq 2095)*$$

$$B_{\bar{N}}(2N+466) = B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+465)) + B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+464)) + B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+463))$$
$$= B_{\bar{N}}(2N+466-(N-2)) + B_{\bar{N}}\left(2N+466-\left(\frac{15N}{7}+\frac{1160}{7}\right)\right) + B_{\bar{N}}\left(2N+466-\left(\frac{16N}{7}+\frac{6198}{7}\right)\right)$$
$$= B_{\bar{N}}(N+468) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{2102}{7}\right) + B_{\bar{N}}\left(-\frac{2N}{7}-\frac{2936}{7}\right) = (N-2)+0+0 = N-2$$
$$(N \geq 2102)*$$

$$B_{\bar{N}}(2N+467) = B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+466)) + B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+465)) + B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+464))$$
$$= B_{\bar{N}}(2N+467-(N-2)) + B_{\bar{N}}(2N+467-(N-2)) + B_{\bar{N}}\left(2N+467-\left(\frac{15N}{7}+\frac{1160}{7}\right)\right)$$
$$= B_{\bar{N}}(N+469) + B_{\bar{N}}(N+469) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{2109}{7}\right) = 471+471+0 = 942$$
$$(N \geq 2109)*$$

$$
\begin{aligned}
B_{\bar{N}}(2N+468) &= B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+467))+B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+466))+B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+465)) \\
&= B_{\bar{N}}(2N+468-942)+B_{\bar{N}}(2N+468-(N-2))+B_{\bar{N}}(2N+468-(N-2)) \\
&= B_{\bar{N}}(2N-474)+B_{\bar{N}}(N+470)+B_{\bar{N}}(N+470) = \left(\frac{16N}{7}-\frac{641}{7}\right)+(N+471)+(N+471) = \frac{30N}{7}+\frac{5953}{7} \\
&(N \geq 541)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+469) &= B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+468))+B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+467))+B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+466)) \\
&= B_{\bar{N}}\left(2N+469-\left(\frac{30N}{7}+\frac{5953}{7}\right)\right)+B_{\bar{N}}(2N+469-942)+B_{\bar{N}}(2N+469-(N-2)) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}-\frac{2670}{7}\right)+B_{\bar{N}}(2N-473)+B_{\bar{N}}(N+471) = 0+\left(\frac{15N}{7}-\frac{527}{7}\right)+(N+473) = \frac{22N}{7}+\frac{2784}{7} \\
&(N \geq 540)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+470) &= B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+469))+B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+468))+B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+467)) \\
&= B_{\bar{N}}\left(2N+470-\left(\frac{22N}{7}+\frac{2784}{7}\right)\right)+B_{\bar{N}}\left(2N+470-\left(\frac{30N}{7}+\frac{5953}{7}\right)\right)+B_{\bar{N}}(2N+470-942) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{506}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}-\frac{2663}{7}\right)+B_{\bar{N}}(2N-472) = 0+0+(N-2) = N-2 \\
&(N \geq 539)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+471) &= B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+470))+B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+469))+B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+468)) \\
&= B_{\bar{N}}(2N+471-(N-2))+B_{\bar{N}}\left(2N+471-\left(\frac{22N}{7}+\frac{2784}{7}\right)\right)+B_{\bar{N}}\left(2N+471-\left(\frac{30N}{7}+\frac{5953}{7}\right)\right) \\
&= B_{\bar{N}}(N+473)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{513}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}-\frac{2656}{7}\right) = (2N+179)+0+0 = 2N+179 \\
&(N \geq 65)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+472) &= B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+471))+B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+470))+B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+469)) \\
&= B_{\bar{N}}(2N+472-(2N+179))+B_{\bar{N}}(2N+472-(N-2))+B_{\bar{N}}\left(2N+472-\left(\frac{22N}{7}+\frac{2784}{7}\right)\right) \\
&= B_{\bar{N}}(293)+B_{\bar{N}}(N+474)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{520}{7}\right) = 293+(2N+60)+0 = 2N+353 \\
&(N \geq 293)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+473) &= B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+472))+B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+471))+B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+470)) \\
&= B_{\bar{N}}(2N+473-(2N+353))+B_{\bar{N}}(2N+473-(2N+179))+B_{\bar{N}}(2N+473-(N-2)) \\
&= B_{\bar{N}}(120)+B_{\bar{N}}(294)+B_{\bar{N}}(N+475) = 120+294+(N-2) = N+412 \\
&(N \geq 294)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+474) &= B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+473))+B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+472))+B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+471)) \\
&= B_{\bar{N}}(2N+474-(N+412))+B_{\bar{N}}(2N+474-(2N+353))+B_{\bar{N}}(2N+474-(2N+179)) \\
&= B_{\bar{N}}(N+62)+B_{\bar{N}}(121)+B_{\bar{N}}(295) = (4N+51)+121+295 = 4N+467 \\
&(N \geq 295)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+475) &= B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+474))+B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+473))+B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+472)) \\
&= B_{\bar{N}}(2N+475-(4N+467))+B_{\bar{N}}(2N+475-(N+412))+B_{\bar{N}}(2N+475-(2N+353)) \\
&= B_{\bar{N}}(-2N+8)+B_{\bar{N}}(N+63)+B_{\bar{N}}(122) = 0+(2N+14)+122 = 2N+136 \\
&(N \geq 122)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+476) &= B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+475))+B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+474))+B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+473)) \\
&= B_{\bar{N}}(2N+476-(2N+136))+B_{\bar{N}}(2N+476-(4N+467))+B_{\bar{N}}(2N+476-(N+412)) \\
&= B_{\bar{N}}(340)+B_{\bar{N}}(-2N+9)+B_{\bar{N}}(N+64) = 340+0+(N+4) = N+344 \\
&(N \geq 340)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+477) &= B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+476))+B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+475))+B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+474)) \\
&= B_{\bar{N}}(2N+477-(N+344))+B_{\bar{N}}(2N+477-(2N+136))+B_{\bar{N}}(2N+477-(4N+467)) \\
&= B_{\bar{N}}(N+133)+B_{\bar{N}}(341)+B_{\bar{N}}(-2N+10) = 135+341+0 = 476 \\
&(N \geq 341)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+478) &= B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+477))+B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+476))+B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+475)) \\
&= B_{\bar{N}}(2N+478-476)+B_{\bar{N}}(2N+478-(N+344))+B_{\bar{N}}(2N+478-(2N+136)) \\
&= B_{\bar{N}}(2N+2)+B_{\bar{N}}(N+134)+B_{\bar{N}}(342) = (2N-3)+(N+135)+342 = 3N+474 \\
&(N \geq 342)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+479) &= B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+478))+B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+477))+B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+476)) \\
&= B_{\bar{N}}(2N+479-(3N+474))+B_{\bar{N}}(2N+479-476)+B_{\bar{N}}(2N+479-(N+344)) \\
&= B_{\bar{N}}(-N+5)+B_{\bar{N}}(2N+3)+B_{\bar{N}}(N+135) = 0+12+(N+137) = N+149 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+480) &= B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+479))+B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+478))+B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+477)) \\
&= B_{\bar{N}}(2N+480-(N+149))+B_{\bar{N}}(2N+480-(3N+474))+B_{\bar{N}}(2N+480-476) \\
&= B_{\bar{N}}(N+331)+B_{\bar{N}}(-N+6)+B_{\bar{N}}(2N+4) = (N+333)+0+(3N+1) = 4N+334 \\
&(N \geq 6)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+481) &= B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+480))+B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+479))+B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+478)) \\
&= B_{\bar{N}}(2N+481-(4N+334))+B_{\bar{N}}(2N+481-(N+149))+B_{\bar{N}}(2N+481-(3N+474)) \\
&= B_{\bar{N}}(-2N+147)+B_{\bar{N}}(N+332)+B_{\bar{N}}(-N+7) = 0+7+0 = 7 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+482) &= B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+481))+B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+480))+B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+479)) \\
&= B_{\bar{N}}(2N+482-7)+B_{\bar{N}}(2N+482-(4N+334))+B_{\bar{N}}(2N+482-(N+149)) \\
&= B_{\bar{N}}(2N+475)+B_{\bar{N}}(-2N+148)+B_{\bar{N}}(N+333) = (2N+136)+0+(2N+139) = 4N+275 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+483) &= B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+482))+B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+481))+B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+480)) \\
&= B_{\bar{N}}(2N+483-(4N+275))+B_{\bar{N}}(2N+483-7)+B_{\bar{N}}(2N+483-(4N+334)) \\
&= B_{\bar{N}}(-2N+208)+B_{\bar{N}}(2N+476)+B_{\bar{N}}(-2N+149) = 0+(N+344)+0 = N+344 \\
&(N \geq 104)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+484) &= B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+483))+B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+482))+B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+481)) \\
&= B_{\bar{N}}(2N+484-(N+344))+B_{\bar{N}}(2N+484-(4N+275))+B_{\bar{N}}(2N+484-7) \\
&= B_{\bar{N}}(N+140)+B_{\bar{N}}(-2N+209)+B_{\bar{N}}(2N+477) = 142+0+476 = 618 \\
&(N \geq 105)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+485) &= B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+484))+B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+483))+B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+482)) \\
&= B_{\bar{N}}(2N+485-618)+B_{\bar{N}}(2N+485-(N+344))+B_{\bar{N}}(2N+485-(4N+275)) \\
&= B_{\bar{N}}(2N-133)+B_{\bar{N}}(N+141)+B_{\bar{N}}(-2N+210) = (2N-131)+(N+142)+0 = 3N+11 \\
&(N \geq 200)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+486) &= B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+485))+B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+484))+B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+483)) \\
&= B_{\bar{N}}(2N+486-(3N+11))+B_{\bar{N}}(2N+486-618)+B_{\bar{N}}(2N+486-(N+344)) \\
&= B_{\bar{N}}(-N+475)+B_{\bar{N}}(2N-132)+B_{\bar{N}}(N+142) = 0+7+(N+144) = N+151 \\
&(N \geq 475)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+487) &= B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+486))+B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+485))+B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+484)) \\
&= B_{\bar{N}}(2N+487-(N+151))+B_{\bar{N}}(2N+487-(3N+11))+B_{\bar{N}}(2N+487-618) \\
&= B_{\bar{N}}(N+336)+B_{\bar{N}}(-N+476)+B_{\bar{N}}(2N-131) = 338+0+\left(\frac{16N}{7}+\frac{45}{7}\right) = \frac{16N}{7}+\frac{2411}{7} \\
&(N \geq 476)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+488) &= B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+487))+B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+486))+B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+485)) \\
&= B_{\bar{N}}\left(2N+488-\left(\frac{16N}{7}+\frac{2411}{7}\right)\right)+B_{\bar{N}}(2N+488-(N+151))+B_{\bar{N}}(2N+488-(3N+11)) \\
&= B_{\bar{N}}\left(-\frac{2N}{7}+\frac{1005}{7}\right)+B_{\bar{N}}(N+337)+B_{\bar{N}}(-N+477) = 0+(N+338)+0 = N+338 \\
&(N \geq 503)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+489) &= B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+488))+B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+487))+B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+486)) \\
&= B_{\bar{N}}(2N+489-(N+338))+B_{\bar{N}}\left(2N+489-\left(\frac{16N}{7}+\frac{2411}{7}\right)\right)+B_{\bar{N}}(2N+489-(N+151)) \\
&= B_{\bar{N}}(N+151)+B_{\bar{N}}\left(-\frac{2N}{7}+\frac{1012}{7}\right)+B_{\bar{N}}(N+338) = (2N+87)+0+(N+340) = 3N+427 \\
&(N \geq 506)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+490) &= B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+489))+B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+488))+B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+487)) \\
&= B_{\bar{N}}(2N+490-(3N+427))+B_{\bar{N}}(2N+490-(N+338))+B_{\bar{N}}\left(2N+490-\left(\frac{16N}{7}+\frac{2411}{7}\right)\right) \\
&= B_{\bar{N}}(-N+63)+B_{\bar{N}}(N+152)+B_{\bar{N}}\left(-\frac{2N}{7}+\frac{1019}{7}\right) = 0+(2N+14)+0 = 2N+14 \\
&(N \geq 510)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+491) &= B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+490))+B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+489))+B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+488)) \\
&= B_{\bar{N}}(2N+491-(2N+14))+B_{\bar{N}}(2N+491-(3N+427))+B_{\bar{N}}(2N+491-(N+338)) \\
&= B_{\bar{N}}(477)+B_{\bar{N}}(-N+64)+B_{\bar{N}}(N+153) = 477+0+(N-2) = N+475 \\
&(N \geq 477)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+492) &= B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+491))+B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+490))+B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+489)) \\
&= B_{\bar{N}}(2N+492-(N+475))+B_{\bar{N}}(2N+492-(2N+14))+B_{\bar{N}}(2N+492-(3N+427)) \\
&= B_{\bar{N}}(N+17)+B_{\bar{N}}(478)+B_{\bar{N}}(-N+65) = (N+13)+478+0 = N+491 \\
&(N \geq 478)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+493) &= B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+492))+B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+491))+B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+490)) \\
&= B_{\bar{N}}(2N+493-(N+491))+B_{\bar{N}}(2N+493-(N+475))+B_{\bar{N}}(2N+493-(2N+14)) \\
&= B_{\bar{N}}(N+2)+B_{\bar{N}}(N+18)+B_{\bar{N}}(479) = (N+1)+18+479 = N+498 \\
&(N \geq 479)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+494) &= B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+493))+B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+492))+B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+491)) \\
&= B_{\bar{N}}(2N+494-(N+498))+B_{\bar{N}}(2N+494-(N+491))+B_{\bar{N}}(2N+494-(N+475)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N+3)+B_{\bar{N}}(N+19) = (N-4)+(N+2)+(N+13) = 3N+11 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+495) &= B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+494))+B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+493))+B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+492)) \\
&= B_{\bar{N}}(2N+495-(3N+11))+B_{\bar{N}}(2N+495-(N+498))+B_{\bar{N}}(2N+495-(N+491)) \\
&= B_{\bar{N}}(-N+484)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N+4) = 0+(N-3)+(N+3) = 2N \\
&(N \geq 484)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+496) &= B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+495))+B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+494))+B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+493)) \\
&= B_{\bar{N}}(2N+496-2N)+B_{\bar{N}}(2N+496-(3N+11))+B_{\bar{N}}(2N+496-(N+498)) \\
&= B_{\bar{N}}(496)+B_{\bar{N}}(-N+485)+B_{\bar{N}}(N-2) = 496+0+(N-2) = N+494 \\
&(N \geq 496)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+497) &= B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+496))+B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+495))+B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+494)) \\
&= B_{\bar{N}}(2N+497-(N+494))+B_{\bar{N}}(2N+497-2N)+B_{\bar{N}}(2N+497-(3N+11)) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(497)+B_{\bar{N}}(-N+486) = (N+2)+497+0 = N+499 \\
&(N \geq 497)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+498) &= B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+497))+B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+496))+B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+495)) \\
&= B_{\bar{N}}(2N+498-(N+499))+B_{\bar{N}}(2N+498-(N+494))+B_{\bar{N}}(2N+498-2N) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(N+4)+B_{\bar{N}}(498) = (N-1)+(N+3)+498 = 2N+500 \\
&(N \geq 498)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+499) &= B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+498))+B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+497))+B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+496)) \\
&= B_{\bar{N}}(2N+499-(2N+500))+B_{\bar{N}}(2N+499-(N+499))+B_{\bar{N}}(2N+499-(N+494)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N)+B_{\bar{N}}(N+5) = 0+N+9 = N+9 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+500) &= B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+499))+B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+498))+B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+497)) \\
&= B_{\bar{N}}(2N+500-(N+9))+B_{\bar{N}}(2N+500-(2N+500))+B_{\bar{N}}(2N+500-(N+499)) \\
&= B_{\bar{N}}(N+491)+B_{\bar{N}}(0)+B_{\bar{N}}(N+1) = (N+492)+0+6 = N+498 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+501) &= B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+500))+B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+499))+B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+498)) \\
&= B_{\bar{N}}(2N+501-(N+498))+B_{\bar{N}}(2N+501-(N+9))+B_{\bar{N}}(2N+501-(2N+500)) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(N+492)+B_{\bar{N}}(1)=(N+2)+(N+494)+1=2N+497 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+502) &= B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+501))+B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+500))+B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+499)) \\
&= B_{\bar{N}}(2N+502-(2N+497))+B_{\bar{N}}(2N+502-(N+498))+B_{\bar{N}}(2N+502-(N+9)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(N+4)+B_{\bar{N}}(N+493)=5+(N+3)+7=N+15 \\
&(N \geq 5)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+503) &= B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+502))+B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+501))+B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+500)) \\
&= B_{\bar{N}}(2N+503-(N+15))+B_{\bar{N}}(2N+503-(2N+497))+B_{\bar{N}}(2N+503-(N+498)) \\
&= B_{\bar{N}}(N+488)+B_{\bar{N}}(6)+B_{\bar{N}}(N+5)=(2N+62)+6+9=2N+77 \\
&(N \geq 6)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+504) &= B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+503))+B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+502))+B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+501)) \\
&= B_{\bar{N}}(2N+504-(2N+77))+B_{\bar{N}}(2N+504-(N+15))+B_{\bar{N}}(2N+504-(2N+497)) \\
&= B_{\bar{N}}(427)+B_{\bar{N}}(N+489)+B_{\bar{N}}(7)=427+(N-2)+7=N+432 \\
&(N \geq 427)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+505) &= B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+504))+B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+503))+B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+502)) \\
&= B_{\bar{N}}(2N+505-(N+432))+B_{\bar{N}}(2N+505-(2N+77))+B_{\bar{N}}(2N+505-(N+15)) \\
&= B_{\bar{N}}(N+73)+B_{\bar{N}}(428)+B_{\bar{N}}(N+490)=7+428+492=927 \\
&(N \geq 428)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+506) &= B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+505))+B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+504))+B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+503)) \\
&= B_{\bar{N}}(2N+506-927)+B_{\bar{N}}(2N+506-(N+432))+B_{\bar{N}}(2N+506-(2N+77)) \\
&= B_{\bar{N}}(2N-421)+B_{\bar{N}}(N+74)+B_{\bar{N}}(429) = (2N-420)+(2N+65)+429 = 4N+74 \\
&(N \geq 488)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+507) &= B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+506))+B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+505))+B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+504)) \\
&= B_{\bar{N}}(2N+507-(4N+74))+B_{\bar{N}}(2N+507-927)+B_{\bar{N}}(2N+507-(N+432)) \\
&= B_{\bar{N}}(-2N+433)+B_{\bar{N}}(2N-420)+B_{\bar{N}}(N+75) = 0+(2N-418)+(2N+3) = 4N-415 \\
&(N \geq 487)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+508) &= B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+507))+B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+506))+B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+505)) \\
&= B_{\bar{N}}(2N+508-(4N-415))+B_{\bar{N}}(2N+508-(4N+74))+B_{\bar{N}}(2N+508-927) \\
&= B_{\bar{N}}(-2N+923)+B_{\bar{N}}(-2N+434)+B_{\bar{N}}(2N-419) = 0+0+7 = 7 \\
&(N \geq 486)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+509) &= B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+508))+B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+507))+B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+506)) \\
&= B_{\bar{N}}(2N+509-7)+B_{\bar{N}}(2N+509-(4N-415))+B_{\bar{N}}(2N+509-(4N+74)) \\
&= B_{\bar{N}}(2N+502)+B_{\bar{N}}(-2N+924)+B_{\bar{N}}(-2N+435) = (N+15)+0+0 = N+15 \\
&(N \geq 462)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+510) &= B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+509))+B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+508))+B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+507)) \\
&= B_{\bar{N}}(2N+510-(N+15))+B_{\bar{N}}(2N+510-7)+B_{\bar{N}}(2N+510-(4N-415)) \\
&= B_{\bar{N}}(N+495)+B_{\bar{N}}(2N+503)+B_{\bar{N}}(-2N+925) = (2N+63)+(2N+77)+0 = 4N+140 \\
&(N \geq 463)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+511) &= B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+510))+B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+509))+B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+508)) \\
&= B_{\bar{N}}(2N+511-(4N+140))+B_{\bar{N}}(2N+511-(N+15))+B_{\bar{N}}(2N+511-7) \\
&= B_{\bar{N}}(-2N+371)+B_{\bar{N}}(N+496)+B_{\bar{N}}(2N+504) = 0+(N-2)+(N+432) = 2N+430 \\
&(N \geq 186)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+512) &= B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+511))+B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+510))+B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+509)) \\
&= B_{\bar{N}}(2N+512-(2N+430))+B_{\bar{N}}(2N+512-(4N+140))+B_{\bar{N}}(2N+512-(N+15)) \\
&= B_{\bar{N}}(82)+B_{\bar{N}}(-2N+372)+B_{\bar{N}}(N+497) = 82+0+499 = 581 \\
&(N \geq 186)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+513) &= B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+512))+B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+511))+B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+510)) \\
&= B_{\bar{N}}(2N+513-581)+B_{\bar{N}}(2N+513-(2N+430))+B_{\bar{N}}(2N+513-(4N+140)) \\
&= B_{\bar{N}}(2N-68)+B_{\bar{N}}(83)+B_{\bar{N}}(-2N+373) = \left(\frac{16N}{7}+\frac{171}{7}\right)+83+0 = \frac{16N}{7}+\frac{752}{7} \\
&(N \geq 187)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+514) &= B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+513))+B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+512))+B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+511)) \\
&= B_{\bar{N}}\left(2N+514-\left(\frac{16N}{7}+\frac{752}{7}\right)\right)+B_{\bar{N}}(2N+514-581)+B_{\bar{N}}(2N+514-(2N+430)) \\
&= B_{\bar{N}}\left(-\frac{2N}{7}+\frac{2846}{7}\right)+B_{\bar{N}}(2N-67)+B_{\bar{N}}(84) = 0+\left(\frac{15N}{7}-\frac{121}{7}\right)+84 = \frac{15N}{7}+\frac{467}{7} \\
&(N \geq 1423)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+515) &= B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+514))+B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+513))+B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+512)) \\
&= B_{\bar{N}}\left(2N+515-\left(\frac{15N}{7}+\frac{467}{7}\right)\right)+B_{\bar{N}}\left(2N+515-\left(\frac{16N}{7}+\frac{752}{7}\right)\right)+B_{\bar{N}}(2N+515-581) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3138}{7}\right)+B_{\bar{N}}\left(-\frac{2N}{7}+\frac{2853}{7}\right)+B_{\bar{N}}(2N-66)=0+0+(N-2)=N-2 \\
&(N\geq 3138)* \\
\\
B_{\bar{N}}(2N+516) &= B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+515))+B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+514))+B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+513)) \\
&= B_{\bar{N}}(2N+516-(N-2))+B_{\bar{N}}\left(2N+516-\left(\frac{15N}{7}+\frac{467}{7}\right)\right)+B_{\bar{N}}\left(2N+516-\left(\frac{16N}{7}+\frac{752}{7}\right)\right) \\
&= B_{\bar{N}}(N+518)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3145}{7}\right)+B_{\bar{N}}\left(-\frac{2N}{7}+\frac{2860}{7}\right)=520+0+0=520 \\
&(N\geq 3145)* \\
\\
B_{\bar{N}}(2N+517) &= B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+516))+B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+515))+B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+514)) \\
&= B_{\bar{N}}(2N+517-520)+B_{\bar{N}}(2N+517-(N-2))+B_{\bar{N}}\left(2N+517-\left(\frac{15N}{7}+\frac{467}{7}\right)\right) \\
&= B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+519)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3152}{7}\right)=(N-2)+(N+520)+0=2N+518 \\
&(N\geq 3152)* \\
\\
B_{\bar{N}}(2N+518) &= B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+517))+B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+516))+B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+515)) \\
&= B_{\bar{N}}(2N+518-(2N+518))+B_{\bar{N}}(2N+518-520)+B_{\bar{N}}(2N+518-(N-2)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+520)=0+N+(N+522)=2N+522 \\
&(N\geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+519) &= B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+518))+B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+517))+B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+516)) \\
&= B_{\bar{N}}(2N+519-(2N+522))+B_{\bar{N}}(2N+519-(2N+518))+B_{\bar{N}}(2N+519-520) \\
&= B_{\bar{N}}(-3)+B_{\bar{N}}(1)+B_{\bar{N}}(2N-1) = 0+1+(N+5) = N+6 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+520) &= B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+519))+B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+518))+B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+517)) \\
&= B_{\bar{N}}(2N+520-(N+6))+B_{\bar{N}}(2N+520-(2N+522))+B_{\bar{N}}(2N+520-(2N+518)) \\
&= B_{\bar{N}}(N+514)+B_{\bar{N}}(-2)+B_{\bar{N}}(2) = 7+0+2 = 9 \\
&(N \geq 2)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+521) &= B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+520))+B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+519))+B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+518)) \\
&= B_{\bar{N}}(2N+521-9)+B_{\bar{N}}(2N+521-(N+6))+B_{\bar{N}}(2N+521-(2N+522)) \\
&= B_{\bar{N}}(2N+512)+B_{\bar{N}}(N+515)+B_{\bar{N}}(-1) = 581+(2N+191)+0 = 2N+772 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+522) &= B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+521))+B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+520))+B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+519)) \\
&= B_{\bar{N}}(2N+522-(2N+772))+B_{\bar{N}}(2N+522-9)+B_{\bar{N}}(2N+522-(N+6)) \\
&= B_{\bar{N}}(-250)+B_{\bar{N}}(2N+513)+B_{\bar{N}}(N+516) = 0+\left(\frac{16N}{7}+\frac{752}{7}\right)+(2N+66) = \frac{30N}{7}+\frac{1214}{7} \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+523) &= B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+522))+B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+521))+B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+520)) \\
&= B_{\bar{N}}\left(2N+523-\left(\frac{30N}{7}+\frac{1214}{7}\right)\right)+B_{\bar{N}}(2N+523-(2N+772))+B_{\bar{N}}(2N+523-9) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}+\frac{2447}{7}\right)+B_{\bar{N}}(-249)+B_{\bar{N}}(2N+514) = 0+0+\left(\frac{15N}{7}+\frac{467}{7}\right) = \frac{15N}{7}+\frac{467}{7} \\
&(N \geq 153)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+524) &= B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+523))+B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+522))+B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+521)) \\
&= B_{\bar{N}}\left(2N+524-\left(\frac{15N}{7}+\frac{467}{7}\right)\right)+B_{\bar{N}}\left(2N+524-\left(\frac{30N}{7}+\frac{1214}{7}\right)\right)+B_{\bar{N}}(2N+524-(2N+772)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3201}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}+\frac{2454}{7}\right)+B_{\bar{N}}(-248)=0+0+0=0 \\
&(N \geq 3201)*
\end{aligned}
$$