Terms $B_{\bar{N}}(2N-1)$ through $B_{\bar{N}}(2N+560)$ when $N \equiv 3 \pmod 7$

When $N \equiv 3 \pmod 7$ and $N \geq 72$, a pattern with 7 interleaved linear sequences lasts from index $N+67$ through $2N-2$. If $N \geq 4315$, there are 562 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.

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

$$\begin{aligned} B_{\bar{N}}(2N) &= B_{\bar{N}}(2N-B_{\bar{N}}(2N-1)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-2)) + B_{\bar{N}}(2N-B_{\bar{N}}(2N-3)) \\ &= B_{\bar{N}}(2N-(N+6)) + B_{\bar{N}}(2N-(2N-1)) + B_{\bar{N}}(2N-(N-1)) \\ &= B_{\bar{N}}(N-6) + B_{\bar{N}}(1) + B_{\bar{N}}(N+1) = (N-6) + 1 + 6 = N+1 \\ &(N \geq 73)* \end{aligned}$$

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

$$\begin{aligned} B_{\bar{N}}(2N+2) &= B_{\bar{N}}(2N+2-B_{\bar{N}}(2N+1)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N)) + B_{\bar{N}}(2N+2-B_{\bar{N}}(2N-1)) \\ &= B_{\bar{N}}(2N+2-(2N-3)) + B_{\bar{N}}(2N+2-(N+1)) + B_{\bar{N}}(2N+2-(N+6)) \\ &= B_{\bar{N}}(5) + B_{\bar{N}}(N+1) + B_{\bar{N}}(N-4) = 5 + 6 + (N-4) = N+7 \\ &(N \geq 71) \end{aligned}$$

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

$$
\begin{aligned}
B_{\bar{N}}(2N+4) &= B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+3)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+2)) + B_{\bar{N}}(2N+4-B_{\bar{N}}(2N+1)) \\
&= B_{\bar{N}}(2N+4-(2N+3)) + B_{\bar{N}}(2N+4-(N+7)) + B_{\bar{N}}(2N+4-(2N-3)) \\
&= B_{\bar{N}}(1) + B_{\bar{N}}(N-3) + B_{\bar{N}}(7) = 1+(N-3)+7 = N+5 \\
&(N \geq 75) *
\end{aligned}
$$

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

$$
\begin{aligned}
B_{\bar{N}}(2N+6) &= B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+4)) + B_{\bar{N}}(2N+6-B_{\bar{N}}(2N+3)) \\
&= B_{\bar{N}}(2N+6-2N) + B_{\bar{N}}(2N+6-(N+5)) + B_{\bar{N}}(2N+6-(2N+3)) \\
&= B_{\bar{N}}(6) + B_{\bar{N}}(N+1) + B_{\bar{N}}(3) = 6+6+3 = 15 \\
&(N \geq 73)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+7) &= B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+5)) + B_{\bar{N}}(2N+7-B_{\bar{N}}(2N+4)) \\
&= B_{\bar{N}}(2N+7-15) + B_{\bar{N}}(2N+7-2N) + B_{\bar{N}}(2N+7-(N+5)) \\
&= B_{\bar{N}}(2N-8) + B_{\bar{N}}(7) + B_{\bar{N}}(N+2) = (2N-6)+7+(N+1) = 3N+2 \\
&(N \geq 77) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+8) &= B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+6)) + B_{\bar{N}}(2N+8-B_{\bar{N}}(2N+5)) \\
&= B_{\bar{N}}(2N+8-(3N+2)) + B_{\bar{N}}(2N+8-15) + B_{\bar{N}}(2N+8-2N) \\
&= B_{\bar{N}}(-N+6) + B_{\bar{N}}(2N-7) + B_{\bar{N}}(8) = 0+7+8 = 15 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+9) &= B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+7)) + B_{\bar{N}}(2N+9-B_{\bar{N}}(2N+6)) \\
&= B_{\bar{N}}(2N+9-15) + B_{\bar{N}}(2N+9-(3N+2)) + B_{\bar{N}}(2N+9-15) \\
&= B_{\bar{N}}(2N-6) + B_{\bar{N}}(-N+7) + B_{\bar{N}}(2N-6) = \left(\frac{16N}{7}+\frac{295}{7}\right) + 0 + \left(\frac{16N}{7}+\frac{295}{7}\right) = \frac{32N}{7}+\frac{590}{7} \\
&(N \geq 105) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+10) &= B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+8)) + B_{\bar{N}}(2N+10-B_{\bar{N}}(2N+7)) \\
&= B_{\bar{N}}\left(2N+10-\left(\frac{32N}{7}+\frac{590}{7}\right)\right) + B_{\bar{N}}(2N+10-15) + B_{\bar{N}}(2N+10-(3N+2)) \\
&= B_{\bar{N}}\left(-\frac{18N}{7}-\frac{520}{7}\right) + B_{\bar{N}}(2N-5) + B_{\bar{N}}(-N+8) = 0 + \left(\frac{15N}{7}-\frac{59}{7}\right) + 0 = \frac{15N}{7}-\frac{59}{7} \\
&(N \geq 112) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+11) &= B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+10)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+9)) + B_{\bar{N}}(2N+11-B_{\bar{N}}(2N+8)) \\
&= B_{\bar{N}}\left(2N+11-\left(\frac{15N}{7}-\frac{59}{7}\right)\right) + B_{\bar{N}}\left(2N+11-\left(\frac{32N}{7}+\frac{590}{7}\right)\right) + B_{\bar{N}}(2N+11-15) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{136}{7}\right) + B_{\bar{N}}\left(-\frac{18N}{7}-\frac{513}{7}\right) + B_{\bar{N}}(2N-4) = 0+0+(N-2) = N-2 \\
&(N \geq 136) *
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+12) &= B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+11))+B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+10))+B_{\bar{N}}(2N+12-B_{\bar{N}}(2N+9)) \\
&= B_{\bar{N}}(2N+12-(N-2))+B_{\bar{N}}\left(2N+12-\left(\frac{15N}{7}-\frac{59}{7}\right)\right)+B_{\bar{N}}\left(2N+12-\left(\frac{32N}{7}+\frac{590}{7}\right)\right) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{143}{7}\right)+B_{\bar{N}}\left(-\frac{18N}{7}-\frac{506}{7}\right)=(N+10)+0+0=N+10 \\
&(N \geq 143)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+13) &= B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+12))+B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+11))+B_{\bar{N}}(2N+13-B_{\bar{N}}(2N+10)) \\
&= B_{\bar{N}}(2N+13-(N+10))+B_{\bar{N}}(2N+13-(N-2))+B_{\bar{N}}\left(2N+13-\left(\frac{15N}{7}-\frac{59}{7}\right)\right) \\
&= B_{\bar{N}}(N+3)+B_{\bar{N}}(N+15)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{150}{7}\right)=(N+2)+(N+11)+0=2N+13 \\
&(N \geq 150)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+14) &= B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+13))+B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+12))+B_{\bar{N}}(2N+14-B_{\bar{N}}(2N+11)) \\
&= B_{\bar{N}}(2N+14-(2N+13))+B_{\bar{N}}(2N+14-(N+10))+B_{\bar{N}}(2N+14-(N-2)) \\
&= B_{\bar{N}}(1)+B_{\bar{N}}(N+4)+B_{\bar{N}}(N+16)=1+(N+3)+17=N+21 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+15) &= B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+14))+B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+13))+B_{\bar{N}}(2N+15-B_{\bar{N}}(2N+12)) \\
&= B_{\bar{N}}(2N+15-(N+21))+B_{\bar{N}}(2N+15-(2N+13))+B_{\bar{N}}(2N+15-(N+10)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(2)+B_{\bar{N}}(N+5)=(N-6)+2+9=N+5 \\
&(N \geq 15)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+16) &= B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+15))+B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+14))+B_{\bar{N}}(2N+16-B_{\bar{N}}(2N+13)) \\
&= B_{\bar{N}}(2N+16-(N+5))+B_{\bar{N}}(2N+16-(N+21))+B_{\bar{N}}(2N+16-(2N+13)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(N-5)+B_{\bar{N}}(3) = (N+8)+(N-5)+3 = 2N+6 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+17) &= B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+16))+B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+15))+B_{\bar{N}}(2N+17-B_{\bar{N}}(2N+14)) \\
&= B_{\bar{N}}(2N+17-(2N+6))+B_{\bar{N}}(2N+17-(N+5))+B_{\bar{N}}(2N+17-(N+21)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N+12)+B_{\bar{N}}(N-4) = 11+(N+9)+(N-4) = 2N+16 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+18) &= B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+17))+B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+16))+B_{\bar{N}}(2N+18-B_{\bar{N}}(2N+15)) \\
&= B_{\bar{N}}(2N+18-(2N+16))+B_{\bar{N}}(2N+18-(2N+6))+B_{\bar{N}}(2N+18-(N+5)) \\
&= B_{\bar{N}}(2)+B_{\bar{N}}(12)+B_{\bar{N}}(N+13) = 2+12+15 = 29 \\
&(N \geq 14)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+19) &= B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+18))+B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+17))+B_{\bar{N}}(2N+19-B_{\bar{N}}(2N+16)) \\
&= B_{\bar{N}}(2N+19-29)+B_{\bar{N}}(2N+19-(2N+16))+B_{\bar{N}}(2N+19-(2N+6)) \\
&= B_{\bar{N}}(2N-10)+B_{\bar{N}}(3)+B_{\bar{N}}(13) = (N-8)+3+13 = N+8 \\
&(N \geq 77)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+20) &= B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+19))+B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+18))+B_{\bar{N}}(2N+20-B_{\bar{N}}(2N+17)) \\
&= B_{\bar{N}}(2N+20-(N+8))+B_{\bar{N}}(2N+20-29)+B_{\bar{N}}(2N+20-(2N+16)) \\
&= B_{\bar{N}}(N+12)+B_{\bar{N}}(2N-9)+B_{\bar{N}}(4) = (N+9)+(2N-8)+4 = 3N+5 \\
&(N \geq 76)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+21) &= B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+19))+B_{\bar{N}}(2N+21-B_{\bar{N}}(2N+18)) \\
&= B_{\bar{N}}(2N+21-(3N+5))+B_{\bar{N}}(2N+21-(N+8))+B_{\bar{N}}(2N+21-29) \\
&= B_{\bar{N}}(-N+16)+B_{\bar{N}}(N+13)+B_{\bar{N}}(2N-8) = 0+15+(2N-6) = 2N+9 \\
&(N \geq 75)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+22) &= B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+20))+B_{\bar{N}}(2N+22-B_{\bar{N}}(2N+19)) \\
&= B_{\bar{N}}(2N+22-(2N+9))+B_{\bar{N}}(2N+22-(3N+5))+B_{\bar{N}}(2N+22-(N+8)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(-N+17)+B_{\bar{N}}(N+14) = 13+0+(N+10) = N+23 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+23) &= B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+21))+B_{\bar{N}}(2N+23-B_{\bar{N}}(2N+20)) \\
&= B_{\bar{N}}(2N+23-(N+23))+B_{\bar{N}}(2N+23-(2N+9))+B_{\bar{N}}(2N+23-(3N+5)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(14)+B_{\bar{N}}(-N+18) = N+14+0 = N+14 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+24) &= B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+22))+B_{\bar{N}}(2N+24-B_{\bar{N}}(2N+21)) \\
&= B_{\bar{N}}(2N+24-(N+14))+B_{\bar{N}}(2N+24-(N+23))+B_{\bar{N}}(2N+24-(2N+9)) \\
&= B_{\bar{N}}(N+10)+B_{\bar{N}}(N+1)+B_{\bar{N}}(15) = (N+7)+6+15 = N+28 \\
&(N \geq 79)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+25) &= B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+23))+B_{\bar{N}}(2N+25-B_{\bar{N}}(2N+22)) \\
&= B_{\bar{N}}(2N+25-(N+28))+B_{\bar{N}}(2N+25-(N+14))+B_{\bar{N}}(2N+25-(N+23)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N+11)+B_{\bar{N}}(N+2) = (N-3)+(N+8)+(N+1) = 3N+6 \\
&(N \geq 78)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+26) &= B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+24))+B_{\bar{N}}(2N+26-B_{\bar{N}}(2N+23)) \\
&= B_{\bar{N}}(2N+26-(3N+6))+B_{\bar{N}}(2N+26-(N+28))+B_{\bar{N}}(2N+26-(N+14)) \\
&= B_{\bar{N}}(-N+20)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N+12) = 0+(N-2)+(N+9) = 2N+7 \\
&(N \geq 189)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+27) &= B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+25))+B_{\bar{N}}(2N+27-B_{\bar{N}}(2N+24)) \\
&= B_{\bar{N}}(2N+27-(2N+7))+B_{\bar{N}}(2N+27-(3N+6))+B_{\bar{N}}(2N+27-(N+28)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(-N+21)+B_{\bar{N}}(N-1) = 20+0+(N-1) = N+19 \\
&(N \geq 196)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+28) &= B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+26))+B_{\bar{N}}(2N+28-B_{\bar{N}}(2N+25)) \\
&= B_{\bar{N}}(2N+28-(N+19))+B_{\bar{N}}(2N+28-(2N+7))+B_{\bar{N}}(2N+28-(3N+6)) \\
&= B_{\bar{N}}(N+9)+B_{\bar{N}}(21)+B_{\bar{N}}(-N+22) = 12+21+0 = 33 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+29) &= B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+27))+B_{\bar{N}}(2N+29-B_{\bar{N}}(2N+26)) \\
&= B_{\bar{N}}(2N+29-33)+B_{\bar{N}}(2N+29-(N+19))+B_{\bar{N}}(2N+29-(2N+7)) \\
&= B_{\bar{N}}(2N-4)+B_{\bar{N}}(N+10)+B_{\bar{N}}(22) = (N-2)+(N+7)+22 = 2N+27 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+30) &= B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+28))+B_{\bar{N}}(2N+30-B_{\bar{N}}(2N+27)) \\
&= B_{\bar{N}}(2N+30-(2N+27))+B_{\bar{N}}(2N+30-33)+B_{\bar{N}}(2N+30-(N+19)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+11) = 3+(N-1)+(N+8) = 2N+10 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+31) &= B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+29))+B_{\bar{N}}(2N+31-B_{\bar{N}}(2N+28)) \\
&= B_{\bar{N}}(2N+31-(2N+10))+B_{\bar{N}}(2N+31-(2N+27))+B_{\bar{N}}(2N+31-33) \\
&= B_{\bar{N}}(21)+B_{\bar{N}}(4)+B_{\bar{N}}(2N-2) = 21+4+(2N-1) = 2N+24 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+32) &= B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+30))+B_{\bar{N}}(2N+32-B_{\bar{N}}(2N+29)) \\
&= B_{\bar{N}}(2N+32-(2N+24))+B_{\bar{N}}(2N+32-(2N+10))+B_{\bar{N}}(2N+32-(2N+27)) \\
&= B_{\bar{N}}(8)+B_{\bar{N}}(22)+B_{\bar{N}}(5) = 8+22+5 = 35 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+33) &= B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+31))+B_{\bar{N}}(2N+33-B_{\bar{N}}(2N+30)) \\
&= B_{\bar{N}}(2N+33-35)+B_{\bar{N}}(2N+33-(2N+24))+B_{\bar{N}}(2N+33-(2N+10)) \\
&= B_{\bar{N}}(2N-2)+B_{\bar{N}}(9)+B_{\bar{N}}(23) = (2N-1)+9+23 = 2N+31 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+34) &= B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+32))+B_{\bar{N}}(2N+34-B_{\bar{N}}(2N+31)) \\
&= B_{\bar{N}}(2N+34-(2N+31))+B_{\bar{N}}(2N+34-35)+B_{\bar{N}}(2N+34-(2N+24)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(2N-1)+B_{\bar{N}}(10) = 3+(N+6)+10 = N+19 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+35) &= B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+33))+B_{\bar{N}}(2N+35-B_{\bar{N}}(2N+32)) \\
&= B_{\bar{N}}(2N+35-(N+19))+B_{\bar{N}}(2N+35-(2N+31))+B_{\bar{N}}(2N+35-35) \\
&= B_{\bar{N}}(N+16)+B_{\bar{N}}(4)+B_{\bar{N}}(2N) = 17+4+(N+1) = N+22 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+36) &= B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+34))+B_{\bar{N}}(2N+36-B_{\bar{N}}(2N+33)) \\
&= B_{\bar{N}}(2N+36-(N+22))+B_{\bar{N}}(2N+36-(N+19))+B_{\bar{N}}(2N+36-(2N+31)) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}(N+17)+B_{\bar{N}}(5) = (N+10)+(N+13)+5 = 2N+28 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+37) &= B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+35))+B_{\bar{N}}(2N+37-B_{\bar{N}}(2N+34)) \\
&= B_{\bar{N}}(2N+37-(2N+28))+B_{\bar{N}}(2N+37-(N+22))+B_{\bar{N}}(2N+37-(N+19)) \\
&= B_{\bar{N}}(9)+B_{\bar{N}}(N+15)+B_{\bar{N}}(N+18) = 9+(N+11)+18 = N+38 \\
&(N \geq 23)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+38) &= B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+36))+B_{\bar{N}}(2N+38-B_{\bar{N}}(2N+35)) \\
&= B_{\bar{N}}(2N+38-(N+38))+B_{\bar{N}}(2N+38-(2N+28))+B_{\bar{N}}(2N+38-(N+22)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(10)+B_{\bar{N}}(N+16) = N+10+17 = N+27 \\
&(N \geq 31)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+39) &= B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+37))+B_{\bar{N}}(2N+39-B_{\bar{N}}(2N+36)) \\
&= B_{\bar{N}}(2N+39-(N+27))+B_{\bar{N}}(2N+39-(N+38))+B_{\bar{N}}(2N+39-(2N+28)) \\
&= B_{\bar{N}}(N+12)+B_{\bar{N}}(N+1)+B_{\bar{N}}(11) = (N+9)+6+11 = N+26 \\
&(N \geq 32)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+40) &= B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+38))+B_{\bar{N}}(2N+40-B_{\bar{N}}(2N+37)) \\
&= B_{\bar{N}}(2N+40-(N+26))+B_{\bar{N}}(2N+40-(N+27))+B_{\bar{N}}(2N+40-(N+38)) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}(N+13)+B_{\bar{N}}(N+2) = (N+10)+15+(N+1) = 2N+26 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+41) &= B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+39))+B_{\bar{N}}(2N+41-B_{\bar{N}}(2N+38)) \\
&= B_{\bar{N}}(2N+41-(2N+26))+B_{\bar{N}}(2N+41-(N+26))+B_{\bar{N}}(2N+41-(N+27)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(N+15)+B_{\bar{N}}(N+14) = 15+(N+11)+(N+10) = 2N+36 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+42) &= B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+40))+B_{\bar{N}}(2N+42-B_{\bar{N}}(2N+39)) \\
&= B_{\bar{N}}(2N+42-(2N+36))+B_{\bar{N}}(2N+42-(2N+26))+B_{\bar{N}}(2N+42-(N+26)) \\
&= B_{\bar{N}}(6)+B_{\bar{N}}(16)+B_{\bar{N}}(N+16) = 6+16+17 = 39 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+43) &= B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+41))+B_{\bar{N}}(2N+43-B_{\bar{N}}(2N+40)) \\
&= B_{\bar{N}}(2N+43-39)+B_{\bar{N}}(2N+43-(2N+36))+B_{\bar{N}}(2N+43-(2N+26)) \\
&= B_{\bar{N}}(2N+4)+B_{\bar{N}}(7)+B_{\bar{N}}(17) = (N+5)+7+17 = N+29 \\
&(N \geq 38)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+44) &= B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+42))+B_{\bar{N}}(2N+44-B_{\bar{N}}(2N+41)) \\
&= B_{\bar{N}}(2N+44-(N+29))+B_{\bar{N}}(2N+44-39)+B_{\bar{N}}(2N+44-(2N+36)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(2N+5)+B_{\bar{N}}(8) = (N+11)+2N+8 = 3N+19 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+45) &= B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+43))+B_{\bar{N}}(2N+45-B_{\bar{N}}(2N+42)) \\
&= B_{\bar{N}}(2N+45-(3N+19))+B_{\bar{N}}(2N+45-(N+29))+B_{\bar{N}}(2N+45-39) \\
&= B_{\bar{N}}(-N+26)+B_{\bar{N}}(N+16)+B_{\bar{N}}(2N+6) = 0+17+15 = 32 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+46) &= B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+45))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+44))+B_{\bar{N}}(2N+46-B_{\bar{N}}(2N+43)) \\
&= B_{\bar{N}}(2N+46-32)+B_{\bar{N}}(2N+46-(3N+19))+B_{\bar{N}}(2N+46-(N+29)) \\
&= B_{\bar{N}}(2N+14)+B_{\bar{N}}(-N+27)+B_{\bar{N}}(N+17) = (N+21)+0+(N+13) = 2N+34 \\
&(N \geq 128)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+47) &= B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+46))+B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+45))+B_{\bar{N}}(2N+47-B_{\bar{N}}(2N+44)) \\
&= B_{\bar{N}}(2N+47-(2N+34))+B_{\bar{N}}(2N+47-32)+B_{\bar{N}}(2N+47-(3N+19)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(2N+15)+B_{\bar{N}}(-N+28) = 13+(N+5)+0 = N+18 \\
&(N \geq 135)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+48) &= B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+47))+B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+46))+B_{\bar{N}}(2N+48-B_{\bar{N}}(2N+45)) \\
&= B_{\bar{N}}(2N+48-(N+18))+B_{\bar{N}}(2N+48-(2N+34))+B_{\bar{N}}(2N+48-32) \\
&= B_{\bar{N}}(N+30)+B_{\bar{N}}(14)+B_{\bar{N}}(2N+16) = (N+9)+14+(2N+6) = 3N+29 \\
&(N \geq 142)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+49) &= B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+48))+B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+47))+B_{\bar{N}}(2N+49-B_{\bar{N}}(2N+46)) \\
&= B_{\bar{N}}(2N+49-(3N+29))+B_{\bar{N}}(2N+49-(N+18))+B_{\bar{N}}(2N+49-(2N+34)) \\
&= B_{\bar{N}}(-N+20)+B_{\bar{N}}(N+31)+B_{\bar{N}}(15) = 0+22+15 = 37 \\
&(N \geq 22)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+50) &= B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+49))+B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+48))+B_{\bar{N}}(2N+50-B_{\bar{N}}(2N+47)) \\
&= B_{\bar{N}}(2N+50-37)+B_{\bar{N}}(2N+50-(3N+29))+B_{\bar{N}}(2N+50-(N+18)) \\
&= B_{\bar{N}}(2N+13)+B_{\bar{N}}(-N+21)+B_{\bar{N}}(N+32) = (2N+13)+0+(N+30) = 3N+43 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+51) &= B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+49))+B_{\bar{N}}(2N+51-B_{\bar{N}}(2N+48)) \\
&= B_{\bar{N}}(2N+51-(3N+43))+B_{\bar{N}}(2N+51-37)+B_{\bar{N}}(2N+51-(3N+29)) \\
&= B_{\bar{N}}(-N+8)+B_{\bar{N}}(2N+14)+B_{\bar{N}}(-N+22) = 0+(N+21)+0 = N+21 \\
&(N \geq 39)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+52) &= B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+50))+B_{\bar{N}}(2N+52-B_{\bar{N}}(2N+49)) \\
&= B_{\bar{N}}(2N+52-(N+21))+B_{\bar{N}}(2N+52-(3N+43))+B_{\bar{N}}(2N+52-37) \\
&= B_{\bar{N}}(N+31)+B_{\bar{N}}(-N+9)+B_{\bar{N}}(2N+15) = 22+0+(N+5) = N+27 \\
&(N \geq 55)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+53) &= B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+51))+B_{\bar{N}}(2N+53-B_{\bar{N}}(2N+50)) \\
&= B_{\bar{N}}(2N+53-(N+27))+B_{\bar{N}}(2N+53-(N+21))+B_{\bar{N}}(2N+53-(3N+43)) \\
&= B_{\bar{N}}(N+26)+B_{\bar{N}}(N+32)+B_{\bar{N}}(-N+10) = 9+(N+30)+0 = N+39 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+54) &= B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+52))+B_{\bar{N}}(2N+54-B_{\bar{N}}(2N+51)) \\
&= B_{\bar{N}}(2N+54-(N+39))+B_{\bar{N}}(2N+54-(N+27))+B_{\bar{N}}(2N+54-(N+21)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(N+27)+B_{\bar{N}}(N+33) = (N+11)+18+(N+35) = 2N+64 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+55) &= B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+53))+B_{\bar{N}}(2N+55-B_{\bar{N}}(2N+52)) \\
&= B_{\bar{N}}(2N+55-(2N+64))+B_{\bar{N}}(2N+55-(N+39))+B_{\bar{N}}(2N+55-(N+27)) \\
&= B_{\bar{N}}(-9)+B_{\bar{N}}(N+16)+B_{\bar{N}}(N+28) = 0+17+(2N+20) = 2N+37 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+56) &= B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+54))+B_{\bar{N}}(2N+56-B_{\bar{N}}(2N+53)) \\
&= B_{\bar{N}}(2N+56-(2N+37))+B_{\bar{N}}(2N+56-(2N+64))+B_{\bar{N}}(2N+56-(N+39)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(-8)+B_{\bar{N}}(N+17) = 19+0+(N+13) = N+32 \\
&(N \geq 44)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+57) &= B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+55))+B_{\bar{N}}(2N+57-B_{\bar{N}}(2N+54)) \\
&= B_{\bar{N}}(2N+57-(N+32))+B_{\bar{N}}(2N+57-(2N+37))+B_{\bar{N}}(2N+57-(2N+64)) \\
&= B_{\bar{N}}(N+25)+B_{\bar{N}}(20)+B_{\bar{N}}(-7) = (2N+5)+20+0 = 2N+25 \\
&(N \geq 45)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+58) &= B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+56))+B_{\bar{N}}(2N+58-B_{\bar{N}}(2N+55)) \\
&= B_{\bar{N}}(2N+58-(2N+25))+B_{\bar{N}}(2N+58-(N+32))+B_{\bar{N}}(2N+58-(2N+37)) \\
&= B_{\bar{N}}(33)+B_{\bar{N}}(N+26)+B_{\bar{N}}(21) = 33+9+21 = 63 \\
&(N \geq 33)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+59) &= B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+57))+B_{\bar{N}}(2N+59-B_{\bar{N}}(2N+56)) \\
&= B_{\bar{N}}(2N+59-63)+B_{\bar{N}}(2N+59-(2N+25))+B_{\bar{N}}(2N+59-(N+32)) \\
&= B_{\bar{N}}(2N-4)+B_{\bar{N}}(34)+B_{\bar{N}}(N+27) = (N-2)+34+18 = N+50 \\
&(N \geq 71)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+60) &= B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+58))+B_{\bar{N}}(2N+60-B_{\bar{N}}(2N+57)) \\
&= B_{\bar{N}}(2N+60-(N+50))+B_{\bar{N}}(2N+60-63)+B_{\bar{N}}(2N+60-(2N+25)) \\
&= B_{\bar{N}}(N+10)+B_{\bar{N}}(2N-3)+B_{\bar{N}}(35) = (N+7)+(N-1)+35 = 2N+41 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+61) &= B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+59))+B_{\bar{N}}(2N+61-B_{\bar{N}}(2N+58)) \\
&= B_{\bar{N}}(2N+61-(2N+41))+B_{\bar{N}}(2N+61-(N+50))+B_{\bar{N}}(2N+61-63) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(N+11)+B_{\bar{N}}(2N-2) = 20+(N+8)+(2N-1) = 3N+27 \\
&(N \geq 69)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+62) &= B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+60))+B_{\bar{N}}(2N+62-B_{\bar{N}}(2N+59)) \\
&= B_{\bar{N}}(2N+62-(3N+27))+B_{\bar{N}}(2N+62-(2N+41))+B_{\bar{N}}(2N+62-(N+50)) \\
&= B_{\bar{N}}(-N+35)+B_{\bar{N}}(21)+B_{\bar{N}}(N+12) = 0+21+(N+9) = N+30 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+63) &= B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+61))+B_{\bar{N}}(2N+63-B_{\bar{N}}(2N+60)) \\
&= B_{\bar{N}}(2N+63-(N+30))+B_{\bar{N}}(2N+63-(3N+27))+B_{\bar{N}}(2N+63-(2N+41)) \\
&= B_{\bar{N}}(N+33)+B_{\bar{N}}(-N+36)+B_{\bar{N}}(22) = (N+35)+0+22 = N+57 \\
&(N \geq 36)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+64) &= B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+62))+B_{\bar{N}}(2N+64-B_{\bar{N}}(2N+61)) \\
&= B_{\bar{N}}(2N+64-(N+57))+B_{\bar{N}}(2N+64-(N+30))+B_{\bar{N}}(2N+64-(3N+27)) \\
&= B_{\bar{N}}(N+7)+B_{\bar{N}}(N+34)+B_{\bar{N}}(-N+37) = (N+5)+(N+13)+0 = 2N+18 \\
&(N \geq 42)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+65) &= B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+63))+B_{\bar{N}}(2N+65-B_{\bar{N}}(2N+62)) \\
&= B_{\bar{N}}(2N+65-(2N+18))+B_{\bar{N}}(2N+65-(N+57))+B_{\bar{N}}(2N+65-(N+30)) \\
&= B_{\bar{N}}(47)+B_{\bar{N}}(N+8)+B_{\bar{N}}(N+35) = 47+(N+6)+27 = N+80 \\
&(N \geq 57)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+66) &= B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+64))+B_{\bar{N}}(2N+66-B_{\bar{N}}(2N+63)) \\
&= B_{\bar{N}}(2N+66-(N+80))+B_{\bar{N}}(2N+66-(2N+18))+B_{\bar{N}}(2N+66-(N+57)) \\
&= B_{\bar{N}}(N-14)+B_{\bar{N}}(48)+B_{\bar{N}}(N+9) = (N-14)+48+12 = N+46 \\
&(N \geq 58)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+67) &= B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+65))+B_{\bar{N}}(2N+67-B_{\bar{N}}(2N+64)) \\
&= B_{\bar{N}}(2N+67-(N+46))+B_{\bar{N}}(2N+67-(N+80))+B_{\bar{N}}(2N+67-(2N+18)) \\
&= B_{\bar{N}}(N+21)+B_{\bar{N}}(N-13)+B_{\bar{N}}(49) = (N+16)+(N-13)+49 = 2N+52 \\
&(N \geq 59)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+68) &= B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+66))+B_{\bar{N}}(2N+68-B_{\bar{N}}(2N+65)) \\
&= B_{\bar{N}}(2N+68-(2N+52))+B_{\bar{N}}(2N+68-(N+46))+B_{\bar{N}}(2N+68-(N+80)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N+22)+B_{\bar{N}}(N-12) = 16+22+(N-12) = N+26 \\
&(N \geq 21)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+69) &= B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+67))+B_{\bar{N}}(2N+69-B_{\bar{N}}(2N+66)) \\
&= B_{\bar{N}}(2N+69-(N+26))+B_{\bar{N}}(2N+69-(2N+52))+B_{\bar{N}}(2N+69-(N+46)) \\
&= B_{\bar{N}}(N+43)+B_{\bar{N}}(17)+B_{\bar{N}}(N+23) = (N+8)+17+21 = N+46 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+70) &= B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+68))+B_{\bar{N}}(2N+70-B_{\bar{N}}(2N+67)) \\
&= B_{\bar{N}}(2N+70-(N+46))+B_{\bar{N}}(2N+70-(N+26))+B_{\bar{N}}(2N+70-(2N+52)) \\
&= B_{\bar{N}}(N+24)+B_{\bar{N}}(N+44)+B_{\bar{N}}(18) = (2N+11)+42+18 = 2N+71 \\
&(N \geq 73)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+71) &= B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+69))+B_{\bar{N}}(2N+71-B_{\bar{N}}(2N+68)) \\
&= B_{\bar{N}}(2N+71-(2N+71))+B_{\bar{N}}(2N+71-(N+46))+B_{\bar{N}}(2N+71-(N+26)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(N+25)+B_{\bar{N}}(N+45) = 0+(2N+5)+(N+40) = 3N+45 \\
&(N \geq 108)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+72) &= B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+70))+B_{\bar{N}}(2N+72-B_{\bar{N}}(2N+69)) \\
&= B_{\bar{N}}(2N+72-(3N+45))+B_{\bar{N}}(2N+72-(2N+71))+B_{\bar{N}}(2N+72-(N+46)) \\
&= B_{\bar{N}}(-N+27)+B_{\bar{N}}(1)+B_{\bar{N}}(N+26) = 0+1+9 = 10 \\
&(N \geq 107)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+73) &= B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+71))+B_{\bar{N}}(2N+73-B_{\bar{N}}(2N+70)) \\
&= B_{\bar{N}}(2N+73-10)+B_{\bar{N}}(2N+73-(3N+45))+B_{\bar{N}}(2N+73-(2N+71)) \\
&= B_{\bar{N}}(2N+63)+B_{\bar{N}}(-N+28)+B_{\bar{N}}(2) = (N+57)+0+2 = N+59 \\
&(N \geq 106)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+74) &= B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+72))+B_{\bar{N}}(2N+74-B_{\bar{N}}(2N+71)) \\
&= B_{\bar{N}}(2N+74-(N+59))+B_{\bar{N}}(2N+74-10)+B_{\bar{N}}(2N+74-(3N+45)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(2N+64)+B_{\bar{N}}(-N+29) = (N+11)+(2N+18)+0 = 3N+29 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+75) &= B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+73))+B_{\bar{N}}(2N+75-B_{\bar{N}}(2N+72)) \\
&= B_{\bar{N}}(2N+75-(3N+29))+B_{\bar{N}}(2N+75-(N+59))+B_{\bar{N}}(2N+75-10) \\
&= B_{\bar{N}}(-N+46)+B_{\bar{N}}(N+16)+B_{\bar{N}}(2N+65) = 0+17+(N+80) = N+97 \\
&(N \geq 80)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+76) &= B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+74))+B_{\bar{N}}(2N+76-B_{\bar{N}}(2N+73)) \\
&= B_{\bar{N}}(2N+76-(N+97))+B_{\bar{N}}(2N+76-(3N+29))+B_{\bar{N}}(2N+76-(N+59)) \\
&= B_{\bar{N}}(N-21)+B_{\bar{N}}(-N+47)+B_{\bar{N}}(N+17) = (N-21)+0+(N+13) = 2N-8 \\
&(N \geq 81)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+77) &= B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+75))+B_{\bar{N}}(2N+77-B_{\bar{N}}(2N+74)) \\
&= B_{\bar{N}}(2N+77-(2N-8))+B_{\bar{N}}(2N+77-(N+97))+B_{\bar{N}}(2N+77-(3N+29)) \\
&= B_{\bar{N}}(85)+B_{\bar{N}}(N-20)+B_{\bar{N}}(-N+48) = 85+(N-20)+0 = N+65 \\
&(N \geq 85)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+78) &= B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+76))+B_{\bar{N}}(2N+78-B_{\bar{N}}(2N+75)) \\
&= B_{\bar{N}}(2N+78-(N+65))+B_{\bar{N}}(2N+78-(2N-8))+B_{\bar{N}}(2N+78-(N+97)) \\
&= B_{\bar{N}}(N+13)+B_{\bar{N}}(86)+B_{\bar{N}}(N-19) = 15+86+(N-19) = N+82 \\
&(N \geq 86)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+79) &= B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+77))+B_{\bar{N}}(2N+79-B_{\bar{N}}(2N+76)) \\
&= B_{\bar{N}}(2N+79-(N+82))+B_{\bar{N}}(2N+79-(N+65))+B_{\bar{N}}(2N+79-(2N-8)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N+14)+B_{\bar{N}}(87) = (N-3)+(N+10)+87 = 2N+94 \\
&(N \geq 87)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+80) &= B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+78))+B_{\bar{N}}(2N+80-B_{\bar{N}}(2N+77)) \\
&= B_{\bar{N}}(2N+80-(2N+94))+B_{\bar{N}}(2N+80-(N+82))+B_{\bar{N}}(2N+80-(N+65)) \\
&= B_{\bar{N}}(-14)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N+15) = 0+(N-2)+(N+11) = 2N+9 \\
&(N \geq 82)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+81) &= B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+79))+B_{\bar{N}}(2N+81-B_{\bar{N}}(2N+78)) \\
&= B_{\bar{N}}(2N+81-(2N+9))+B_{\bar{N}}(2N+81-(2N+94))+B_{\bar{N}}(2N+81-(N+82)) \\
&= B_{\bar{N}}(72)+B_{\bar{N}}(-13)+B_{\bar{N}}(N-1) = 72+0+(N-1) = N+71 \\
&(N \geq 83)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+82) &= B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+80))+B_{\bar{N}}(2N+82-B_{\bar{N}}(2N+79)) \\
&= B_{\bar{N}}(2N+82-(N+71))+B_{\bar{N}}(2N+82-(2N+9))+B_{\bar{N}}(2N+82-(2N+94)) \\
&= B_{\bar{N}}(N+11)+B_{\bar{N}}(73)+B_{\bar{N}}(-12) = (N+8)+73+0 = N+81 \\
&(N \geq 74)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+83) &= B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+82))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+81))+B_{\bar{N}}(2N+83-B_{\bar{N}}(2N+80)) \\
&= B_{\bar{N}}(2N+83-(N+81))+B_{\bar{N}}(2N+83-(N+71))+B_{\bar{N}}(2N+83-(2N+9)) \\
&= B_{\bar{N}}(N+2)+B_{\bar{N}}(N+12)+B_{\bar{N}}(74) = (N+1)+(N+9)+74 = 2N+84 \\
&(N \geq 87)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+84) &= B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+83))+B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+82))+B_{\bar{N}}(2N+84-B_{\bar{N}}(2N+81)) \\
&= B_{\bar{N}}(2N+84-(2N+84))+B_{\bar{N}}(2N+84-(N+81))+B_{\bar{N}}(2N+84-(N+71)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(N+3)+B_{\bar{N}}(N+13) = 0+(N+2)+15 = N+17 \\
&(N \geq 88)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+85) &= B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+84))+B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+83))+B_{\bar{N}}(2N+85-B_{\bar{N}}(2N+82)) \\
&= B_{\bar{N}}(2N+85-(N+17))+B_{\bar{N}}(2N+85-(2N+84))+B_{\bar{N}}(2N+85-(N+81)) \\
&= B_{\bar{N}}(N+68)+B_{\bar{N}}(1)+B_{\bar{N}}(N+4) = (2N+2)+1+(N+3) = 3N+6 \\
&(N \geq 89)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+86) &= B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+85))+B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+84))+B_{\bar{N}}(2N+86-B_{\bar{N}}(2N+83)) \\
&= B_{\bar{N}}(2N+86-(3N+6))+B_{\bar{N}}(2N+86-(N+17))+B_{\bar{N}}(2N+86-(2N+84)) \\
&= B_{\bar{N}}(-N+80)+B_{\bar{N}}(N+69)+B_{\bar{N}}(2) = 0+(N-2)+2 = N \\
&(N \geq 80)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+87) &= B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+86))+B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+85))+B_{\bar{N}}(2N+87-B_{\bar{N}}(2N+84)) \\
&= B_{\bar{N}}(2N+87-N)+B_{\bar{N}}(2N+87-(3N+6))+B_{\bar{N}}(2N+87-(N+17)) \\
&= B_{\bar{N}}(N+87)+B_{\bar{N}}(-N+81)+B_{\bar{N}}(N+70) = 7+0+72 = 79 \\
&(N \geq 85)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+88) &= B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+86))+B_{\bar{N}}(2N+88-B_{\bar{N}}(2N+85)) \\
&= B_{\bar{N}}(2N+88-79)+B_{\bar{N}}(2N+88-N)+B_{\bar{N}}(2N+88-(3N+6)) \\
&= B_{\bar{N}}(2N+9)+B_{\bar{N}}(N+88)+B_{\bar{N}}(-N+82) = \left(\frac{32N}{7}+\frac{590}{7}\right)+(2N+69)+0 = \frac{46N}{7}+\frac{1073}{7} \\
&(N \geq 86)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+89) &= B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+87))+B_{\bar{N}}(2N+89-B_{\bar{N}}(2N+86)) \\
&= B_{\bar{N}}\left(2N+89-\left(\frac{46N}{7}+\frac{1073}{7}\right)\right)+B_{\bar{N}}(2N+89-79)+B_{\bar{N}}(2N+89-N) \\
&= B_{\bar{N}}\left(-\frac{32N}{7}-\frac{450}{7}\right)+B_{\bar{N}}(2N+10)+B_{\bar{N}}(N+89) = 0+\left(\frac{15N}{7}-\frac{59}{7}\right)+(2N+5) = \frac{29N}{7}-\frac{24}{7} \\
&(N \geq 87)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+90) &= B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+88))+B_{\bar{N}}(2N+90-B_{\bar{N}}(2N+87)) \\
&= B_{\bar{N}}\left(2N+90-\left(\frac{29N}{7}-\frac{24}{7}\right)\right)+B_{\bar{N}}\left(2N+90-\left(\frac{46N}{7}+\frac{1073}{7}\right)\right)+B_{\bar{N}}(2N+90-79) \\
&= B_{\bar{N}}\left(-\frac{15N}{7}+\frac{654}{7}\right)+B_{\bar{N}}\left(-\frac{32N}{7}-\frac{443}{7}\right)+B_{\bar{N}}(2N+11)=0+0+(N-2)=N-2 \\
&(N\geq 148)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+91) &= B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+89))+B_{\bar{N}}(2N+91-B_{\bar{N}}(2N+88)) \\
&= B_{\bar{N}}(2N+91-(N-2))+B_{\bar{N}}\left(2N+91-\left(\frac{29N}{7}-\frac{24}{7}\right)\right)+B_{\bar{N}}\left(2N+91-\left(\frac{46N}{7}+\frac{1073}{7}\right)\right) \\
&= B_{\bar{N}}(N+93)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{661}{7}\right)+B_{\bar{N}}\left(-\frac{32N}{7}-\frac{436}{7}\right)=(N+95)+0+0=N+95 \\
&(N\geq 147)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+92) &= B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+90))+B_{\bar{N}}(2N+92-B_{\bar{N}}(2N+89)) \\
&= B_{\bar{N}}(2N+92-(N+95))+B_{\bar{N}}(2N+92-(N-2))+B_{\bar{N}}\left(2N+92-\left(\frac{29N}{7}-\frac{24}{7}\right)\right) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N+94)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{668}{7}\right)=(N-3)+7+0=N+4 \\
&(N\geq 146)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+93) &= B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+91))+B_{\bar{N}}(2N+93-B_{\bar{N}}(2N+90)) \\
&= B_{\bar{N}}(2N+93-(N+4))+B_{\bar{N}}(2N+93-(N+95))+B_{\bar{N}}(2N+93-(N-2)) \\
&= B_{\bar{N}}(N+89)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N+95)=(2N+5)+(N-2)+(2N+71)=5N+74 \\
&(N\geq 165)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+94) &= B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+92))+B_{\bar{N}}(2N+94-B_{\bar{N}}(2N+91)) \\
&= B_{\bar{N}}(2N+94-(5N+74))+B_{\bar{N}}(2N+94-(N+4))+B_{\bar{N}}(2N+94-(N+95)) \\
&= B_{\bar{N}}(-3N+20)+B_{\bar{N}}(N+90)+B_{\bar{N}}(N-1) = 0+(N-2)+(N-1) = 2N-3 \\
&(N \geq 166)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+95) &= B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+93))+B_{\bar{N}}(2N+95-B_{\bar{N}}(2N+92)) \\
&= B_{\bar{N}}(2N+95-(2N-3))+B_{\bar{N}}(2N+95-(5N+74))+B_{\bar{N}}(2N+95-(N+4)) \\
&= B_{\bar{N}}(98)+B_{\bar{N}}(-3N+21)+B_{\bar{N}}(N+91) = 98+0+93 = 191 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+96) &= B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+94))+B_{\bar{N}}(2N+96-B_{\bar{N}}(2N+93)) \\
&= B_{\bar{N}}(2N+96-191)+B_{\bar{N}}(2N+96-(2N-3))+B_{\bar{N}}(2N+96-(5N+74)) \\
&= B_{\bar{N}}(2N-95)+B_{\bar{N}}(99)+B_{\bar{N}}(-3N+22) = (N-2)+99+0 = N+97 \\
&(N \geq 162)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+97) &= B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+95))+B_{\bar{N}}(2N+97-B_{\bar{N}}(2N+94)) \\
&= B_{\bar{N}}(2N+97-(N+97))+B_{\bar{N}}(2N+97-191)+B_{\bar{N}}(2N+97-(2N-3)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(2N-94)+B_{\bar{N}}(100) = N+(N-92)+100 = 2N+8 \\
&(N \geq 166)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+98) &= B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+96))+B_{\bar{N}}(2N+98-B_{\bar{N}}(2N+95)) \\
&= B_{\bar{N}}(2N+98-(2N+8))+B_{\bar{N}}(2N+98-(N+97))+B_{\bar{N}}(2N+98-191) \\
&= B_{\bar{N}}(90)+B_{\bar{N}}(N+1)+B_{\bar{N}}(2N-93) = 90+6+(2N-92) = 2N+4 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+99) &= B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+97))+B_{\bar{N}}(2N+99-B_{\bar{N}}(2N+96)) \\
&= B_{\bar{N}}(2N+99-(2N+4))+B_{\bar{N}}(2N+99-(2N+8))+B_{\bar{N}}(2N+99-(N+97)) \\
&= B_{\bar{N}}(95)+B_{\bar{N}}(91)+B_{\bar{N}}(N+2) = 95+91+(N+1) = N+187 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+100) &= B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+98))+B_{\bar{N}}(2N+100-B_{\bar{N}}(2N+97)) \\
&= B_{\bar{N}}(2N+100-(N+187))+B_{\bar{N}}(2N+100-(2N+4))+B_{\bar{N}}(2N+100-(2N+8)) \\
&= B_{\bar{N}}(N-87)+B_{\bar{N}}(96)+B_{\bar{N}}(92) = (N-87)+96+92 = N+101 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+101) &= B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+99))+B_{\bar{N}}(2N+101-B_{\bar{N}}(2N+98)) \\
&= B_{\bar{N}}(2N+101-(N+101))+B_{\bar{N}}(2N+101-(N+187))+B_{\bar{N}}(2N+101-(2N+4)) \\
&= B_{\bar{N}}(N)+B_{\bar{N}}(N-86)+B_{\bar{N}}(97) = N+(N-86)+97 = 2N+11 \\
&(N \geq 167)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+102) &= B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+100))+B_{\bar{N}}(2N+102-B_{\bar{N}}(2N+99)) \\
&= B_{\bar{N}}(2N+102-(2N+11))+B_{\bar{N}}(2N+102-(N+101))+B_{\bar{N}}(2N+102-(N+187)) \\
&= B_{\bar{N}}(91)+B_{\bar{N}}(N+1)+B_{\bar{N}}(N-85) = 91+6+(N-85) = N+12 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+103) &= B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+101))+B_{\bar{N}}(2N+103-B_{\bar{N}}(2N+100)) \\
&= B_{\bar{N}}(2N+103-(N+12))+B_{\bar{N}}(2N+103-(2N+11))+B_{\bar{N}}(2N+103-(N+101)) \\
&= B_{\bar{N}}(N+91)+B_{\bar{N}}(92)+B_{\bar{N}}(N+2) = 93+92+(N+1) = N+186 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+104) &= B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+102))+B_{\bar{N}}(2N+104-B_{\bar{N}}(2N+101)) \\
&= B_{\bar{N}}(2N+104-(N+186))+B_{\bar{N}}(2N+104-(N+12))+B_{\bar{N}}(2N+104-(2N+11)) \\
&= B_{\bar{N}}(N-82)+B_{\bar{N}}(N+92)+B_{\bar{N}}(93)=(N-82)+(N+93)+93=2N+104 \\
&(N \geq 96)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+105) &= B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+103))+B_{\bar{N}}(2N+105-B_{\bar{N}}(2N+102)) \\
&= B_{\bar{N}}(2N+105-(2N+104))+B_{\bar{N}}(2N+105-(N+186))+B_{\bar{N}}(2N+105-(N+12)) \\
&= B_{\bar{N}}(1)+B_{\bar{N}}(N-81)+B_{\bar{N}}(N+93)=1+(N-81)+(N+95)=2N+15 \\
&(N \geq 168)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+106) &= B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+104))+B_{\bar{N}}(2N+106-B_{\bar{N}}(2N+103)) \\
&= B_{\bar{N}}(2N+106-(2N+15))+B_{\bar{N}}(2N+106-(2N+104))+B_{\bar{N}}(2N+106-(N+186)) \\
&= B_{\bar{N}}(91)+B_{\bar{N}}(2)+B_{\bar{N}}(N-80)=91+2+(N-80)=N+13 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+107) &= B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+105))+B_{\bar{N}}(2N+107-B_{\bar{N}}(2N+104)) \\
&= B_{\bar{N}}(2N+107-(N+13))+B_{\bar{N}}(2N+107-(2N+15))+B_{\bar{N}}(2N+107-(2N+104)) \\
&= B_{\bar{N}}(N+94)+B_{\bar{N}}(92)+B_{\bar{N}}(3)=7+92+3=102 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+108) &= B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+106))+B_{\bar{N}}(2N+108-B_{\bar{N}}(2N+105)) \\
&= B_{\bar{N}}(2N+108-102)+B_{\bar{N}}(2N+108-(N+13))+B_{\bar{N}}(2N+108-(2N+15)) \\
&= B_{\bar{N}}(2N+6)+B_{\bar{N}}(N+95)+B_{\bar{N}}(93)=15+(2N+71)+93=2N+179 \\
&(N \geq 111)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+109) &= B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+107))+B_{\bar{N}}(2N+109-B_{\bar{N}}(2N+106)) \\
&= B_{\bar{N}}(2N+109-(2N+179))+B_{\bar{N}}(2N+109-102)+B_{\bar{N}}(2N+109-(N+13)) \\
&= B_{\bar{N}}(-70)+B_{\bar{N}}(2N+7)+B_{\bar{N}}(N+96) = 0+(3N+2)+(2N+6) = 5N+8 \\
&(N \geq 169)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+110) &= B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+108))+B_{\bar{N}}(2N+110-B_{\bar{N}}(2N+107)) \\
&= B_{\bar{N}}(2N+110-(5N+8))+B_{\bar{N}}(2N+110-(2N+179))+B_{\bar{N}}(2N+110-102) \\
&= B_{\bar{N}}(-3N+102)+B_{\bar{N}}(-69)+B_{\bar{N}}(2N+8) = 0+0+15 = 15 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+111) &= B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+109))+B_{\bar{N}}(2N+111-B_{\bar{N}}(2N+108)) \\
&= B_{\bar{N}}(2N+111-15)+B_{\bar{N}}(2N+111-(5N+8))+B_{\bar{N}}(2N+111-(2N+179)) \\
&= B_{\bar{N}}(2N+96)+B_{\bar{N}}(-3N+103)+B_{\bar{N}}(-68) = (N+97)+0+0 = N+97 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+112) &= B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+110))+B_{\bar{N}}(2N+112-B_{\bar{N}}(2N+109)) \\
&= B_{\bar{N}}(2N+112-(N+97))+B_{\bar{N}}(2N+112-15)+B_{\bar{N}}(2N+112-(5N+8)) \\
&= B_{\bar{N}}(N+15)+B_{\bar{N}}(2N+97)+B_{\bar{N}}(-3N+104) = (N+11)+(2N+8)+0 = 3N+19 \\
&(N \geq 72)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+113) &= B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+111))+B_{\bar{N}}(2N+113-B_{\bar{N}}(2N+110)) \\
&= B_{\bar{N}}(2N+113-(3N+19))+B_{\bar{N}}(2N+113-(N+97))+B_{\bar{N}}(2N+113-15) \\
&= B_{\bar{N}}(-N+94)+B_{\bar{N}}(N+16)+B_{\bar{N}}(2N+98) = 0+17+(2N+4) = 2N+21 \\
&(N \geq 170)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+114) &= B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+112))+B_{\bar{N}}(2N+114-B_{\bar{N}}(2N+111)) \\
&= B_{\bar{N}}(2N+114-(2N+21))+B_{\bar{N}}(2N+114-(3N+19))+B_{\bar{N}}(2N+114-(N+97)) \\
&= B_{\bar{N}}(93)+B_{\bar{N}}(-N+95)+B_{\bar{N}}(N+17) = 93+0+(N+13) = N+106 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+115) &= B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+113))+B_{\bar{N}}(2N+115-B_{\bar{N}}(2N+112)) \\
&= B_{\bar{N}}(2N+115-(N+106))+B_{\bar{N}}(2N+115-(2N+21))+B_{\bar{N}}(2N+115-(3N+19)) \\
&= B_{\bar{N}}(N+9)+B_{\bar{N}}(94)+B_{\bar{N}}(-N+96) = 12+94+0 = 106 \\
&(N \geq 172)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+116) &= B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+114))+B_{\bar{N}}(2N+116-B_{\bar{N}}(2N+113)) \\
&= B_{\bar{N}}(2N+116-106)+B_{\bar{N}}(2N+116-(N+106))+B_{\bar{N}}(2N+116-(2N+21)) \\
&= B_{\bar{N}}(2N+10)+B_{\bar{N}}(N+10)+B_{\bar{N}}(95) = \left(\frac{15N}{7}-\frac{59}{7}\right)+(N+7)+95 = \frac{22N}{7}+\frac{655}{7} \\
&(N \geq 95)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+117) &= B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+115))+B_{\bar{N}}(2N+117-B_{\bar{N}}(2N+114)) \\
&= B_{\bar{N}}\left(2N+117-\left(\frac{22N}{7}+\frac{655}{7}\right)\right)+B_{\bar{N}}(2N+117-106)+B_{\bar{N}}(2N+117-(N+106)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{164}{7}\right)+B_{\bar{N}}(2N+11)+B_{\bar{N}}(N+11) = 0+(N-2)+(N+8) = 2N+6 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+118) &= B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+116))+B_{\bar{N}}(2N+118-B_{\bar{N}}(2N+115)) \\
&= B_{\bar{N}}(2N+118-(2N+6))+B_{\bar{N}}\left(2N+118-\left(\frac{22N}{7}+\frac{655}{7}\right)\right)+B_{\bar{N}}(2N+118-106) \\
&= B_{\bar{N}}(112)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{171}{7}\right)+B_{\bar{N}}(2N+12) = 112+0+(N+10) = N+122 \\
&(N \geq 172)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+119) &= B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+117))+B_{\bar{N}}(2N+119-B_{\bar{N}}(2N+116)) \\
&= B_{\bar{N}}(2N+119-(N+122))+B_{\bar{N}}(2N+119-(2N+6))+B_{\bar{N}}\left(2N+119-\left(\frac{22N}{7}+\frac{655}{7}\right)\right) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(113)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{178}{7}\right) = (N-3)+113+0 = N+110 \\
&(N \geq 173)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+120) &= B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+119))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+118))+B_{\bar{N}}(2N+120-B_{\bar{N}}(2N+117)) \\
&= B_{\bar{N}}(2N+120-(N+110))+B_{\bar{N}}(2N+120-(N+122))+B_{\bar{N}}(2N+120-(2N+6)) \\
&= B_{\bar{N}}(N+10)+B_{\bar{N}}(N-2)+B_{\bar{N}}(114) = (N+7)+(N-2)+114 = 2N+119 \\
&(N \geq 144)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+121) &= B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+120))+B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+119))+B_{\bar{N}}(2N+121-B_{\bar{N}}(2N+118)) \\
&= B_{\bar{N}}(2N+121-(2N+119))+B_{\bar{N}}(2N+121-(N+110))+B_{\bar{N}}(2N+121-(N+122)) \\
&= B_{\bar{N}}(2)+B_{\bar{N}}(N+11)+B_{\bar{N}}(N-1) = 2+(N+8)+(N-1) = 2N+9 \\
&(N \geq 143)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+122) &= B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+121))+B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+120))+B_{\bar{N}}(2N+122-B_{\bar{N}}(2N+119)) \\
&= B_{\bar{N}}(2N+122-(2N+9))+B_{\bar{N}}(2N+122-(2N+119))+B_{\bar{N}}(2N+122-(N+110)) \\
&= B_{\bar{N}}(113)+B_{\bar{N}}(3)+B_{\bar{N}}(N+12) = 113+3+(N+9) = N+125 \\
&(N \geq 113)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+123) &= B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+122))+B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+121))+B_{\bar{N}}(2N+123-B_{\bar{N}}(2N+120)) \\
&= B_{\bar{N}}(2N+123-(N+125))+B_{\bar{N}}(2N+123-(2N+9))+B_{\bar{N}}(2N+123-(2N+119)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(114)+B_{\bar{N}}(4) = (N-2)+114+4 = N+116 \\
&(N \geq 114)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+124) &= B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+123))+B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+122))+B_{\bar{N}}(2N+124-B_{\bar{N}}(2N+121)) \\
&= B_{\bar{N}}(2N+124-(N+116))+B_{\bar{N}}(2N+124-(N+125))+B_{\bar{N}}(2N+124-(2N+9)) \\
&= B_{\bar{N}}(N+8)+B_{\bar{N}}(N-1)+B_{\bar{N}}(115) = (N+6)+(N-1)+115 = 2N+120 \\
&(N \geq 155)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+125) &= B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+124))+B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+123))+B_{\bar{N}}(2N+125-B_{\bar{N}}(2N+122)) \\
&= B_{\bar{N}}(2N+125-(2N+120))+B_{\bar{N}}(2N+125-(N+116))+B_{\bar{N}}(2N+125-(N+125)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(N+9)+B_{\bar{N}}(N) = 5+12+N = N+17 \\
&(N \geq 315)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+126) &= B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+125))+B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+124))+B_{\bar{N}}(2N+126-B_{\bar{N}}(2N+123)) \\
&= B_{\bar{N}}(2N+126-(N+17))+B_{\bar{N}}(2N+126-(2N+120))+B_{\bar{N}}(2N+126-(N+116)) \\
&= B_{\bar{N}}(N+109)+B_{\bar{N}}(6)+B_{\bar{N}}(N+10) = (2N+75)+6+(N+7) = 3N+88 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+127) &= B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+126))+B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+125))+B_{\bar{N}}(2N+127-B_{\bar{N}}(2N+124)) \\
&= B_{\bar{N}}(2N+127-(3N+88))+B_{\bar{N}}(2N+127-(N+17))+B_{\bar{N}}(2N+127-(2N+120)) \\
&= B_{\bar{N}}(-N+39)+B_{\bar{N}}(N+110)+B_{\bar{N}}(7)=0+(2N+8)+7=2N+15 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+128) &= B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+127))+B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+126))+B_{\bar{N}}(2N+128-B_{\bar{N}}(2N+125)) \\
&= B_{\bar{N}}(2N+128-(2N+15))+B_{\bar{N}}(2N+128-(3N+88))+B_{\bar{N}}(2N+128-(N+17)) \\
&= B_{\bar{N}}(113)+B_{\bar{N}}(-N+40)+B_{\bar{N}}(N+111)=113+0+(N-2)=N+111 \\
&(N \geq 269)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+129) &= B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+128))+B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+127))+B_{\bar{N}}(2N+129-B_{\bar{N}}(2N+126)) \\
&= B_{\bar{N}}(2N+129-(N+111))+B_{\bar{N}}(2N+129-(2N+15))+B_{\bar{N}}(2N+129-(3N+88)) \\
&= B_{\bar{N}}(N+18)+B_{\bar{N}}(114)+B_{\bar{N}}(-N+41)=18+114+0=132 \\
&(N \geq 270)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+130) &= B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+128))+B_{\bar{N}}(2N+130-B_{\bar{N}}(2N+127)) \\
&= B_{\bar{N}}(2N+130-132)+B_{\bar{N}}(2N+130-(N+111))+B_{\bar{N}}(2N+130-(2N+15)) \\
&= B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+19)+B_{\bar{N}}(115)=(2N-1)+(N+13)+115=3N+127 \\
&(N \geq 159)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+131) &= B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+129))+B_{\bar{N}}(2N+131-B_{\bar{N}}(2N+128)) \\
&= B_{\bar{N}}(2N+131-(3N+127))+B_{\bar{N}}(2N+131-132)+B_{\bar{N}}(2N+131-(N+111)) \\
&= B_{\bar{N}}(-N+4)+B_{\bar{N}}(2N-1)+B_{\bar{N}}(N+20)=0+(N+6)+(N+15)=2N+21 \\
&(N \geq 270)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+132) &= B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+130))+B_{\bar{N}}(2N+132-B_{\bar{N}}(2N+129)) \\
&= B_{\bar{N}}(2N+132-(2N+21))+B_{\bar{N}}(2N+132-(3N+127))+B_{\bar{N}}(2N+132-132) \\
&= B_{\bar{N}}(111)+B_{\bar{N}}(-N+5)+B_{\bar{N}}(2N) = 111+0+(N+1) = N+112 \\
&(N \geq 271)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+133) &= B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+131))+B_{\bar{N}}(2N+133-B_{\bar{N}}(2N+130)) \\
&= B_{\bar{N}}(2N+133-(N+112))+B_{\bar{N}}(2N+133-(2N+21))+B_{\bar{N}}(2N+133-(3N+127)) \\
&= B_{\bar{N}}(N+21)+B_{\bar{N}}(112)+B_{\bar{N}}(-N+6) = (N+16)+112+0 = N+128 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+134) &= B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+132))+B_{\bar{N}}(2N+134-B_{\bar{N}}(2N+131)) \\
&= B_{\bar{N}}(2N+134-(N+128))+B_{\bar{N}}(2N+134-(N+112))+B_{\bar{N}}(2N+134-(2N+21)) \\
&= B_{\bar{N}}(N+6)+B_{\bar{N}}(N+22)+B_{\bar{N}}(113) = (N+4)+22+113 = N+139 \\
&(N \geq 113)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+135) &= B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+133))+B_{\bar{N}}(2N+135-B_{\bar{N}}(2N+132)) \\
&= B_{\bar{N}}(2N+135-(N+139))+B_{\bar{N}}(2N+135-(N+128))+B_{\bar{N}}(2N+135-(N+112)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N+7)+B_{\bar{N}}(N+23) = (N-4)+(N+5)+21 = 2N+22 \\
&(N \geq 271)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+136) &= B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+134))+B_{\bar{N}}(2N+136-B_{\bar{N}}(2N+133)) \\
&= B_{\bar{N}}(2N+136-(2N+22))+B_{\bar{N}}(2N+136-(N+139))+B_{\bar{N}}(2N+136-(N+128)) \\
&= B_{\bar{N}}(114)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N+8) = 114+(N-3)+(N+6) = 2N+117 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+137) &= B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+135))+B_{\bar{N}}(2N+137-B_{\bar{N}}(2N+134)) \\
&= B_{\bar{N}}(2N+137-(2N+117))+B_{\bar{N}}(2N+137-(2N+22))+B_{\bar{N}}(2N+137-(N+139)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(115)+B_{\bar{N}}(N-2) = 20+115+(N-2) = N+133 \\
&(N \geq 273)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+138) &= B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+136))+B_{\bar{N}}(2N+138-B_{\bar{N}}(2N+135)) \\
&= B_{\bar{N}}(2N+138-(N+133))+B_{\bar{N}}(2N+138-(2N+117))+B_{\bar{N}}(2N+138-(2N+22)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(21)+B_{\bar{N}}(116) = 9+21+116 = 146 \\
&(N \geq 117)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+139) &= B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+137))+B_{\bar{N}}(2N+139-B_{\bar{N}}(2N+136)) \\
&= B_{\bar{N}}(2N+139-146)+B_{\bar{N}}(2N+139-(N+133))+B_{\bar{N}}(2N+139-(2N+117)) \\
&= B_{\bar{N}}(2N-7)+B_{\bar{N}}(N+6)+B_{\bar{N}}(22) = 7+(N+4)+22 = N+33 \\
&(N \geq 272)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+140) &= B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+138))+B_{\bar{N}}(2N+140-B_{\bar{N}}(2N+137)) \\
&= B_{\bar{N}}(2N+140-(N+33))+B_{\bar{N}}(2N+140-146)+B_{\bar{N}}(2N+140-(N+133)) \\
&= B_{\bar{N}}(N+107)+B_{\bar{N}}(2N-6)+B_{\bar{N}}(N+7) = (N+109)+\left(\frac{16N}{7}+\frac{295}{7}\right)+(N+5) = \frac{30N}{7}+\frac{1093}{7} \\
&(N \geq 273)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+141) &= B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+139))+B_{\bar{N}}(2N+141-B_{\bar{N}}(2N+138)) \\
&= B_{\bar{N}}\left(2N+141-\left(\frac{30N}{7}+\frac{1093}{7}\right)\right)+B_{\bar{N}}(2N+141-(N+33))+B_{\bar{N}}(2N+141-146) \\
&= B_{\bar{N}}\left(-\frac{16N}{7}-\frac{106}{7}\right)+B_{\bar{N}}(N+108)+B_{\bar{N}}(2N-5) = 0+7+\left(\frac{15N}{7}-\frac{59}{7}\right) = \frac{15N}{7}-\frac{10}{7} \\
&(N \geq 274)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+142) &= B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+140))+B_{\bar{N}}(2N+142-B_{\bar{N}}(2N+139)) \\
&= B_{\bar{N}}\left(2N+142-\left(\frac{15N}{7}-\frac{10}{7}\right)\right)+B_{\bar{N}}\left(2N+142-\left(\frac{30N}{7}+\frac{1093}{7}\right)\right)+B_{\bar{N}}(2N+142-(N+33)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{1004}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}-\frac{99}{7}\right)+B_{\bar{N}}(N+109)=0+0+(2N+75)=2N+75 \\
&(N\geq 1004)* \\
\\
B_{\bar{N}}(2N+143) &= B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+141))+B_{\bar{N}}(2N+143-B_{\bar{N}}(2N+140)) \\
&= B_{\bar{N}}(2N+143-(2N+75))+B_{\bar{N}}\left(2N+143-\left(\frac{15N}{7}-\frac{10}{7}\right)\right)+B_{\bar{N}}\left(2N+143-\left(\frac{30N}{7}+\frac{1093}{7}\right)\right) \\
&= B_{\bar{N}}(68)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{1011}{7}\right)+B_{\bar{N}}\left(-\frac{16N}{7}-\frac{92}{7}\right)=68+0+0=68 \\
&(N\geq 1011)* \\
\\
B_{\bar{N}}(2N+144) &= B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+142))+B_{\bar{N}}(2N+144-B_{\bar{N}}(2N+141)) \\
&= B_{\bar{N}}(2N+144-68)+B_{\bar{N}}(2N+144-(2N+75))+B_{\bar{N}}\left(2N+144-\left(\frac{15N}{7}-\frac{10}{7}\right)\right) \\
&= B_{\bar{N}}(2N+76)+B_{\bar{N}}(69)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{1018}{7}\right)=(2N-8)+69+0=2N+61 \\
&(N\geq 1018)* \\
\\
B_{\bar{N}}(2N+145) &= B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+143))+B_{\bar{N}}(2N+145-B_{\bar{N}}(2N+142)) \\
&= B_{\bar{N}}(2N+145-(2N+61))+B_{\bar{N}}(2N+145-68)+B_{\bar{N}}(2N+145-(2N+75)) \\
&= B_{\bar{N}}(84)+B_{\bar{N}}(2N+77)+B_{\bar{N}}(70)=84+(N+65)+70=N+219 \\
&(N\geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+146) &= B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+144))+B_{\bar{N}}(2N+146-B_{\bar{N}}(2N+143)) \\
&= B_{\bar{N}}(2N+146-(N+219))+B_{\bar{N}}(2N+146-(2N+61))+B_{\bar{N}}(2N+146-68) \\
&= B_{\bar{N}}(N-73)+B_{\bar{N}}(85)+B_{\bar{N}}(2N+78) = (N-73)+85+(N+82) = 2N+94 \\
&(N \geq 220)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+147) &= B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+145))+B_{\bar{N}}(2N+147-B_{\bar{N}}(2N+144)) \\
&= B_{\bar{N}}(2N+147-(2N+94))+B_{\bar{N}}(2N+147-(N+219))+B_{\bar{N}}(2N+147-(2N+61)) \\
&= B_{\bar{N}}(53)+B_{\bar{N}}(N-72)+B_{\bar{N}}(86) = 53+(N-72)+86 = N+67 \\
&(N \geq 274)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+148) &= B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+146))+B_{\bar{N}}(2N+148-B_{\bar{N}}(2N+145)) \\
&= B_{\bar{N}}(2N+148-(N+67))+B_{\bar{N}}(2N+148-(2N+94))+B_{\bar{N}}(2N+148-(N+219)) \\
&= B_{\bar{N}}(N+81)+B_{\bar{N}}(54)+B_{\bar{N}}(N-71) = (2N+67)+54+(N-71) = 3N+50 \\
&(N \geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+149) &= B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+147))+B_{\bar{N}}(2N+149-B_{\bar{N}}(2N+146)) \\
&= B_{\bar{N}}(2N+149-(3N+50))+B_{\bar{N}}(2N+149-(N+67))+B_{\bar{N}}(2N+149-(2N+94)) \\
&= B_{\bar{N}}(-N+99)+B_{\bar{N}}(N+82)+B_{\bar{N}}(55) = 0+(2N+4)+55 = 2N+59 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+150) &= B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+148))+B_{\bar{N}}(2N+150-B_{\bar{N}}(2N+147)) \\
&= B_{\bar{N}}(2N+150-(2N+59))+B_{\bar{N}}(2N+150-(3N+50))+B_{\bar{N}}(2N+150-(N+67)) \\
&= B_{\bar{N}}(91)+B_{\bar{N}}(-N+100)+B_{\bar{N}}(N+83) = 91+0+(N-2) = N+89 \\
&(N \geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+151) &= B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+149))+B_{\bar{N}}(2N+151-B_{\bar{N}}(2N+148)) \\
&= B_{\bar{N}}(2N+151-(N+89))+B_{\bar{N}}(2N+151-(2N+59))+B_{\bar{N}}(2N+151-(3N+50)) \\
&= B_{\bar{N}}(N+62)+B_{\bar{N}}(92)+B_{\bar{N}}(-N+101) = (4N+51)+92+0 = 4N+143 \\
&(N \geq 275)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+152) &= B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+150))+B_{\bar{N}}(2N+152-B_{\bar{N}}(2N+149)) \\
&= B_{\bar{N}}(2N+152-(4N+143))+B_{\bar{N}}(2N+152-(N+89))+B_{\bar{N}}(2N+152-(2N+59)) \\
&= B_{\bar{N}}(-2N+9)+B_{\bar{N}}(N+63)+B_{\bar{N}}(93) = 0+(2N+14)+93 = 2N+107 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+153) &= B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+151))+B_{\bar{N}}(2N+153-B_{\bar{N}}(2N+150)) \\
&= B_{\bar{N}}(2N+153-(2N+107))+B_{\bar{N}}(2N+153-(4N+143))+B_{\bar{N}}(2N+153-(N+89)) \\
&= B_{\bar{N}}(46)+B_{\bar{N}}(-2N+10)+B_{\bar{N}}(N+64) = 46+0+(N+4) = N+50 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+154) &= B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+152))+B_{\bar{N}}(2N+154-B_{\bar{N}}(2N+151)) \\
&= B_{\bar{N}}(2N+154-(N+50))+B_{\bar{N}}(2N+154-(2N+107))+B_{\bar{N}}(2N+154-(4N+143)) \\
&= B_{\bar{N}}(N+104)+B_{\bar{N}}(47)+B_{\bar{N}}(-2N+11) = (N-2)+47+0 = N+45 \\
&(N \geq 232)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+155) &= B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+153))+B_{\bar{N}}(2N+155-B_{\bar{N}}(2N+152)) \\
&= B_{\bar{N}}(2N+155-(N+45))+B_{\bar{N}}(2N+155-(N+50))+B_{\bar{N}}(2N+155-(2N+107)) \\
&= B_{\bar{N}}(N+110)+B_{\bar{N}}(N+105)+B_{\bar{N}}(48) = (2N+8)+107+48 = 2N+163 \\
&(N \geq 276)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+156) &= B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+154))+B_{\bar{N}}(2N+156-B_{\bar{N}}(2N+153)) \\
&= B_{\bar{N}}(2N+156-(2N+163))+B_{\bar{N}}(2N+156-(N+45))+B_{\bar{N}}(2N+156-(N+50)) \\
&= B_{\bar{N}}(-7)+B_{\bar{N}}(N+111)+B_{\bar{N}}(N+106) = 0+(N-2)+(N+107) = 2N+105 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+157) &= B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+155))+B_{\bar{N}}(2N+157-B_{\bar{N}}(2N+154)) \\
&= B_{\bar{N}}(2N+157-(2N+105))+B_{\bar{N}}(2N+157-(2N+163))+B_{\bar{N}}(2N+157-(N+45)) \\
&= B_{\bar{N}}(52)+B_{\bar{N}}(-6)+B_{\bar{N}}(N+112) = 52+0+114 = 166 \\
&(N \geq 278)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+158) &= B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+156))+B_{\bar{N}}(2N+158-B_{\bar{N}}(2N+155)) \\
&= B_{\bar{N}}(2N+158-166)+B_{\bar{N}}(2N+158-(2N+105))+B_{\bar{N}}(2N+158-(2N+163)) \\
&= B_{\bar{N}}(2N-8)+B_{\bar{N}}(53)+B_{\bar{N}}(-5) = (2N-6)+53+0 = 2N+47 \\
&(N \geq 173)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+159) &= B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+157))+B_{\bar{N}}(2N+159-B_{\bar{N}}(2N+156)) \\
&= B_{\bar{N}}(2N+159-(2N+47))+B_{\bar{N}}(2N+159-166)+B_{\bar{N}}(2N+159-(2N+105)) \\
&= B_{\bar{N}}(112)+B_{\bar{N}}(2N-7)+B_{\bar{N}}(54) = 112+7+54 = 173 \\
&(N \geq 277)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+160) &= B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+159))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+158))+B_{\bar{N}}(2N+160-B_{\bar{N}}(2N+157)) \\
&= B_{\bar{N}}(2N+160-173)+B_{\bar{N}}(2N+160-(2N+47))+B_{\bar{N}}(2N+160-166) \\
&= B_{\bar{N}}(2N-13)+B_{\bar{N}}(113)+B_{\bar{N}}(2N-6) = \left(\frac{16N}{7}+\frac{281}{7}\right)+113+\left(\frac{16N}{7}+\frac{295}{7}\right) = \frac{32N}{7}+\frac{1367}{7} \\
&(N \geq 278)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+161) &= B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+160)) + B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+159)) + B_{\bar{N}}(2N+161-B_{\bar{N}}(2N+158)) \\
&= B_{\bar{N}}\left(2N+161-\left(\frac{32N}{7}+\frac{1367}{7}\right)\right) + B_{\bar{N}}(2N+161-173) + B_{\bar{N}}(2N+161-(2N+47)) \\
&= B_{\bar{N}}\left(-\frac{18N}{7}-\frac{240}{7}\right) + B_{\bar{N}}(2N-12) + B_{\bar{N}}(114) = 0 + \left(\frac{15N}{7}-\frac{66}{7}\right) + 114 = \frac{15N}{7}+\frac{732}{7} \\
&(N \geq 279)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+162) &= B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+161)) + B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+160)) + B_{\bar{N}}(2N+162-B_{\bar{N}}(2N+159)) \\
&= B_{\bar{N}}\left(2N+162-\left(\frac{15N}{7}+\frac{732}{7}\right)\right) + B_{\bar{N}}\left(2N+162-\left(\frac{32N}{7}+\frac{1367}{7}\right)\right) + B_{\bar{N}}(2N+162-173) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{402}{7}\right) + B_{\bar{N}}\left(-\frac{18N}{7}-\frac{233}{7}\right) + B_{\bar{N}}(2N-11) = 0+0+(N-2) = N-2 \\
&(N \geq 402)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+163) &= B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+162)) + B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+161)) + B_{\bar{N}}(2N+163-B_{\bar{N}}(2N+160)) \\
&= B_{\bar{N}}(2N+163-(N-2)) + B_{\bar{N}}\left(2N+163-\left(\frac{15N}{7}+\frac{732}{7}\right)\right) + B_{\bar{N}}\left(2N+163-\left(\frac{32N}{7}+\frac{1367}{7}\right)\right) \\
&= B_{\bar{N}}(N+165) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{409}{7}\right) + B_{\bar{N}}\left(-\frac{18N}{7}-\frac{226}{7}\right) = (2N+91)+0+0 = 2N+91 \\
&(N \geq 409)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+164) &= B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+163)) + B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+162)) + B_{\bar{N}}(2N+164-B_{\bar{N}}(2N+161)) \\
&= B_{\bar{N}}(2N+164-(2N+91)) + B_{\bar{N}}(2N+164-(N-2)) + B_{\bar{N}}\left(2N+164-\left(\frac{15N}{7}+\frac{732}{7}\right)\right) \\
&= B_{\bar{N}}(73) + B_{\bar{N}}(N+166) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{416}{7}\right) = 73+(2N+16)+0 = 2N+89 \\
&(N \geq 416)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+165) &= B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+164))+B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+163))+B_{\bar{N}}(2N+165-B_{\bar{N}}(2N+162)) \\
&= B_{\bar{N}}(2N+165-(2N+89))+B_{\bar{N}}(2N+165-(2N+91))+B_{\bar{N}}(2N+165-(N-2)) \\
&= B_{\bar{N}}(76)+B_{\bar{N}}(74)+B_{\bar{N}}(N+167) = 76+74+(N-2) = N+148 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+166) &= B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+165))+B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+164))+B_{\bar{N}}(2N+166-B_{\bar{N}}(2N+163)) \\
&= B_{\bar{N}}(2N+166-(N+148))+B_{\bar{N}}(2N+166-(2N+89))+B_{\bar{N}}(2N+166-(2N+91)) \\
&= B_{\bar{N}}(N+18)+B_{\bar{N}}(77)+B_{\bar{N}}(75) = 18+77+75 = 170 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+167) &= B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+166))+B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+165))+B_{\bar{N}}(2N+167-B_{\bar{N}}(2N+164)) \\
&= B_{\bar{N}}(2N+167-170)+B_{\bar{N}}(2N+167-(N+148))+B_{\bar{N}}(2N+167-(2N+89)) \\
&= B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+19)+B_{\bar{N}}(78) = (N-1)+(N+13)+78 = 2N+90 \\
&(N \geq 279)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+168) &= B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+167))+B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+166))+B_{\bar{N}}(2N+168-B_{\bar{N}}(2N+165)) \\
&= B_{\bar{N}}(2N+168-(2N+90))+B_{\bar{N}}(2N+168-170)+B_{\bar{N}}(2N+168-(N+148)) \\
&= B_{\bar{N}}(78)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+20) = 78+(2N-1)+(N+15) = 3N+92 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+169) &= B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+168))+B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+167))+B_{\bar{N}}(2N+169-B_{\bar{N}}(2N+166)) \\
&= B_{\bar{N}}(2N+169-(3N+92))+B_{\bar{N}}(2N+169-(2N+90))+B_{\bar{N}}(2N+169-170) \\
&= B_{\bar{N}}(-N+77)+B_{\bar{N}}(79)+B_{\bar{N}}(2N-1) = 0+79+(N+6) = N+85 \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+170) &= B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+169))+B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+168))+B_{\bar{N}}(2N+170-B_{\bar{N}}(2N+167)) \\
&= B_{\bar{N}}(2N+170-(N+85))+B_{\bar{N}}(2N+170-(3N+92))+B_{\bar{N}}(2N+170-(2N+90)) \\
&= B_{\bar{N}}(N+85)+B_{\bar{N}}(-N+78)+B_{\bar{N}}(80)=(N+86)+0+80=N+166 \\
&(N \geq 151)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+171) &= B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+170))+B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+169))+B_{\bar{N}}(2N+171-B_{\bar{N}}(2N+168)) \\
&= B_{\bar{N}}(2N+171-(N+166))+B_{\bar{N}}(2N+171-(N+85))+B_{\bar{N}}(2N+171-(3N+92)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(N+86)+B_{\bar{N}}(-N+79)=9+(N+88)+0=N+97 \\
&(N \geq 280)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+172) &= B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+171))+B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+170))+B_{\bar{N}}(2N+172-B_{\bar{N}}(2N+169)) \\
&= B_{\bar{N}}(2N+172-(N+97))+B_{\bar{N}}(2N+172-(N+166))+B_{\bar{N}}(2N+172-(N+85)) \\
&= B_{\bar{N}}(N+75)+B_{\bar{N}}(N+6)+B_{\bar{N}}(N+87)=(2N+3)+(N+4)+7=3N+14 \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+173) &= B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+171))+B_{\bar{N}}(2N+173-B_{\bar{N}}(2N+170)) \\
&= B_{\bar{N}}(2N+173-(3N+14))+B_{\bar{N}}(2N+173-(N+97))+B_{\bar{N}}(2N+173-(N+166)) \\
&= B_{\bar{N}}(-N+159)+B_{\bar{N}}(N+76)+B_{\bar{N}}(N+7)=0+(N-2)+(N+5)=2N+3 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+174) &= B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+172))+B_{\bar{N}}(2N+174-B_{\bar{N}}(2N+171)) \\
&= B_{\bar{N}}(2N+174-(2N+3))+B_{\bar{N}}(2N+174-(3N+14))+B_{\bar{N}}(2N+174-(N+97)) \\
&= B_{\bar{N}}(171)+B_{\bar{N}}(-N+160)+B_{\bar{N}}(N+77)=171+0+79=250 \\
&(N \geq 171)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+175) &= B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+173))+B_{\bar{N}}(2N+175-B_{\bar{N}}(2N+172)) \\
&= B_{\bar{N}}(2N+175-250)+B_{\bar{N}}(2N+175-(2N+3))+B_{\bar{N}}(2N+175-(3N+14)) \\
&= B_{\bar{N}}(2N-75)+B_{\bar{N}}(172)+B_{\bar{N}}(-N+161) = \left(\frac{15N}{7}-\frac{129}{7}\right)+172+0 = \frac{15N}{7}+\frac{1075}{7} \\
&(N \geq 281)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+176) &= B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+174))+B_{\bar{N}}(2N+176-B_{\bar{N}}(2N+173)) \\
&= B_{\bar{N}}\left(2N+176-\left(\frac{15N}{7}+\frac{1075}{7}\right)\right)+B_{\bar{N}}(2N+176-250)+B_{\bar{N}}(2N+176-(2N+3)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{157}{7}\right)+B_{\bar{N}}(2N-74)+B_{\bar{N}}(173) = 0+(N-2)+173 = N+171 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+177) &= B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+175))+B_{\bar{N}}(2N+177-B_{\bar{N}}(2N+174)) \\
&= B_{\bar{N}}(2N+177-(N+171))+B_{\bar{N}}\left(2N+177-\left(\frac{15N}{7}+\frac{1075}{7}\right)\right)+B_{\bar{N}}(2N+177-250) \\
&= B_{\bar{N}}(N+6)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{164}{7}\right)+B_{\bar{N}}(2N-73) = (N+4)+0+(N-71) = 2N-67 \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+178) &= B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+176))+B_{\bar{N}}(2N+178-B_{\bar{N}}(2N+175)) \\
&= B_{\bar{N}}(2N+178-(2N-67))+B_{\bar{N}}(2N+178-(N+171))+B_{\bar{N}}\left(2N+178-\left(\frac{15N}{7}+\frac{1075}{7}\right)\right) \\
&= B_{\bar{N}}(245)+B_{\bar{N}}(N+7)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{171}{7}\right) = 245+(N+5)+0 = N+250 \\
&(N \geq 245)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+179) &= B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+177))+B_{\bar{N}}(2N+179-B_{\bar{N}}(2N+176)) \\
&= B_{\bar{N}}(2N+179-(N+250))+B_{\bar{N}}(2N+179-(2N-67))+B_{\bar{N}}(2N+179-(N+171)) \\
&= B_{\bar{N}}(N-71)+B_{\bar{N}}(246)+B_{\bar{N}}(N+8) = (N-71)+246+(N+6) = 2N+181 \\
&(N \geq 282)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+180) &= B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+178))+B_{\bar{N}}(2N+180-B_{\bar{N}}(2N+177)) \\
&= B_{\bar{N}}(2N+180-(2N+181))+B_{\bar{N}}(2N+180-(N+250))+B_{\bar{N}}(2N+180-(2N-67)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N-70)+B_{\bar{N}}(247) = 0+(N-70)+247 = N+177 \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+181) &= B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+179))+B_{\bar{N}}(2N+181-B_{\bar{N}}(2N+178)) \\
&= B_{\bar{N}}(2N+181-(N+177))+B_{\bar{N}}(2N+181-(2N+181))+B_{\bar{N}}(2N+181-(N+250)) \\
&= B_{\bar{N}}(N+4)+B_{\bar{N}}(0)+B_{\bar{N}}(N-69) = (N+3)+0+(N-69) = 2N-66 \\
&(N \geq 284)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+182) &= B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+180))+B_{\bar{N}}(2N+182-B_{\bar{N}}(2N+179)) \\
&= B_{\bar{N}}(2N+182-(2N-66))+B_{\bar{N}}(2N+182-(N+177))+B_{\bar{N}}(2N+182-(2N+181)) \\
&= B_{\bar{N}}(248)+B_{\bar{N}}(N+5)+B_{\bar{N}}(1) = 248+9+1 = 258 \\
&(N \geq 248)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+183) &= B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+182))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+181))+B_{\bar{N}}(2N+183-B_{\bar{N}}(2N+180)) \\
&= B_{\bar{N}}(2N+183-258)+B_{\bar{N}}(2N+183-(2N-66))+B_{\bar{N}}(2N+183-(N+177)) \\
&= B_{\bar{N}}(2N-75)+B_{\bar{N}}(249)+B_{\bar{N}}(N+6) = \left(\frac{15N}{7}-\frac{129}{7}\right)+249+(N+4) = \frac{22N}{7}+\frac{1642}{7} \\
&(N \geq 283)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+184) &= B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+183)) + B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+182)) + B_{\bar{N}}(2N+184-B_{\bar{N}}(2N+181)) \\
&= B_{\bar{N}}\left(2N+184-\left(\frac{22N}{7}+\frac{1642}{7}\right)\right) + B_{\bar{N}}(2N+184-258) + B_{\bar{N}}(2N+184-(2N-66)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}-\frac{354}{7}\right) + B_{\bar{N}}(2N-74) + B_{\bar{N}}(250) = 0+(N-2)+250 = N+248 \\
&(N \geq 284)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+185) &= B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+184)) + B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+183)) + B_{\bar{N}}(2N+185-B_{\bar{N}}(2N+182)) \\
&= B_{\bar{N}}(2N+185-(N+248)) + B_{\bar{N}}\left(2N+185-\left(\frac{22N}{7}+\frac{1642}{7}\right)\right) + B_{\bar{N}}(2N+185-258) \\
&= B_{\bar{N}}(N-63) + B_{\bar{N}}\left(-\frac{8N}{7}-\frac{347}{7}\right) + B_{\bar{N}}(2N-73) = (N-63)+0+(N-71) = 2N-134 \\
&(N \geq 285)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+186) &= B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+185)) + B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+184)) + B_{\bar{N}}(2N+186-B_{\bar{N}}(2N+183)) \\
&= B_{\bar{N}}(2N+186-(2N-134)) + B_{\bar{N}}(2N+186-(N+248)) + B_{\bar{N}}\left(2N+186-\left(\frac{22N}{7}+\frac{1642}{7}\right)\right) \\
&= B_{\bar{N}}(320) + B_{\bar{N}}(N-62) + B_{\bar{N}}\left(-\frac{8N}{7}-\frac{340}{7}\right) = 320+(N-62)+0 = N+258 \\
&(N \geq 320)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+187) &= B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+186)) + B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+185)) + B_{\bar{N}}(2N+187-B_{\bar{N}}(2N+184)) \\
&= B_{\bar{N}}(2N+187-(N+258)) + B_{\bar{N}}(2N+187-(2N-134)) + B_{\bar{N}}(2N+187-(N+248)) \\
&= B_{\bar{N}}(N-71) + B_{\bar{N}}(321) + B_{\bar{N}}(N-61) = (N-71)+321+(N-61) = 2N+189 \\
&(N \geq 321)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+188) &= B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+186))+B_{\bar{N}}(2N+188-B_{\bar{N}}(2N+185)) \\
&= B_{\bar{N}}(2N+188-(2N+189))+B_{\bar{N}}(2N+188-(N+258))+B_{\bar{N}}(2N+188-(2N-134)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N-70)+B_{\bar{N}}(322) = 0+(N-70)+322 = N+252 \\
&(N \geq 322)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+189) &= B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+187))+B_{\bar{N}}(2N+189-B_{\bar{N}}(2N+186)) \\
&= B_{\bar{N}}(2N+189-(N+252))+B_{\bar{N}}(2N+189-(2N+189))+B_{\bar{N}}(2N+189-(N+258)) \\
&= B_{\bar{N}}(N-63)+B_{\bar{N}}(0)+B_{\bar{N}}(N-69) = (N-63)+0+(N-69) = 2N-132 \\
&(N \geq 286)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+190) &= B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+188))+B_{\bar{N}}(2N+190-B_{\bar{N}}(2N+187)) \\
&= B_{\bar{N}}(2N+190-(2N-132))+B_{\bar{N}}(2N+190-(N+252))+B_{\bar{N}}(2N+190-(2N+189)) \\
&= B_{\bar{N}}(322)+B_{\bar{N}}(N-62)+B_{\bar{N}}(1) = 322+(N-62)+1 = N+261 \\
&(N \geq 322)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+191) &= B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+189))+B_{\bar{N}}(2N+191-B_{\bar{N}}(2N+188)) \\
&= B_{\bar{N}}(2N+191-(N+261))+B_{\bar{N}}(2N+191-(2N-132))+B_{\bar{N}}(2N+191-(N+252)) \\
&= B_{\bar{N}}(N-70)+B_{\bar{N}}(323)+B_{\bar{N}}(N-61) = (N-70)+323+(N-61) = 2N+192 \\
&(N \geq 323)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+192) &= B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+190))+B_{\bar{N}}(2N+192-B_{\bar{N}}(2N+189)) \\
&= B_{\bar{N}}(2N+192-(2N+192))+B_{\bar{N}}(2N+192-(N+261))+B_{\bar{N}}(2N+192-(2N-132)) \\
&= B_{\bar{N}}(0)+B_{\bar{N}}(N-69)+B_{\bar{N}}(324) = 0+(N-69)+324 = N+255 \\
&(N \geq 324)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+193) &= B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+191))+B_{\bar{N}}(2N+193-B_{\bar{N}}(2N+190)) \\
&= B_{\bar{N}}(2N+193-(N+255))+B_{\bar{N}}(2N+193-(2N+192))+B_{\bar{N}}(2N+193-(N+261)) \\
&= B_{\bar{N}}(N-62)+B_{\bar{N}}(1)+B_{\bar{N}}(N-68) = (N-62)+1+(N-68) = 2N-129 \\
&(N \geq 287)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+194) &= B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+192))+B_{\bar{N}}(2N+194-B_{\bar{N}}(2N+191)) \\
&= B_{\bar{N}}(2N+194-(2N-129))+B_{\bar{N}}(2N+194-(N+255))+B_{\bar{N}}(2N+194-(2N+192)) \\
&= B_{\bar{N}}(323)+B_{\bar{N}}(N-61)+B_{\bar{N}}(2) = 323+(N-61)+2 = N+264 \\
&(N \geq 323)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+195) &= B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+193))+B_{\bar{N}}(2N+195-B_{\bar{N}}(2N+192)) \\
&= B_{\bar{N}}(2N+195-(N+264))+B_{\bar{N}}(2N+195-(2N-129))+B_{\bar{N}}(2N+195-(N+255)) \\
&= B_{\bar{N}}(N-69)+B_{\bar{N}}(324)+B_{\bar{N}}(N-60) = (N-69)+324+(N-60) = 2N+195 \\
&(N \geq 324)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+196) &= B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+194))+B_{\bar{N}}(2N+196-B_{\bar{N}}(2N+193)) \\
&= B_{\bar{N}}(2N+196-(2N+195))+B_{\bar{N}}(2N+196-(N+264))+B_{\bar{N}}(2N+196-(2N-129)) \\
&= B_{\bar{N}}(1)+B_{\bar{N}}(N-68)+B_{\bar{N}}(325) = 1+(N-68)+325 = N+258 \\
&(N \geq 325)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+197) &= B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+196))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+195))+B_{\bar{N}}(2N+197-B_{\bar{N}}(2N+194)) \\
&= B_{\bar{N}}(2N+197-(N+258))+B_{\bar{N}}(2N+197-(2N+195))+B_{\bar{N}}(2N+197-(N+264)) \\
&= B_{\bar{N}}(N-61)+B_{\bar{N}}(2)+B_{\bar{N}}(N-67) = (N-61)+2+(N-67) = 2N-126 \\
&(N \geq 288)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+198) &= B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+197)) + B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+196)) + B_{\bar{N}}(2N+198-B_{\bar{N}}(2N+195)) \\
&= B_{\bar{N}}(2N+198-(2N-126)) + B_{\bar{N}}(2N+198-(N+258)) + B_{\bar{N}}(2N+198-(2N+195)) \\
&= B_{\bar{N}}(324) + B_{\bar{N}}(N-60) + B_{\bar{N}}(3) = 324 + (N-60) + 3 = N+267 \\
&(N \geq 324)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+199) &= B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+198)) + B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+197)) + B_{\bar{N}}(2N+199-B_{\bar{N}}(2N+196)) \\
&= B_{\bar{N}}(2N+199-(N+267)) + B_{\bar{N}}(2N+199-(2N-126)) + B_{\bar{N}}(2N+199-(N+258)) \\
&= B_{\bar{N}}(N-68) + B_{\bar{N}}(325) + B_{\bar{N}}(N-59) = (N-68) + 325 + (N-59) = 2N+198 \\
&(N \geq 325)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+200) &= B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+199)) + B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+198)) + B_{\bar{N}}(2N+200-B_{\bar{N}}(2N+197)) \\
&= B_{\bar{N}}(2N+200-(2N+198)) + B_{\bar{N}}(2N+200-(N+267)) + B_{\bar{N}}(2N+200-(2N-126)) \\
&= B_{\bar{N}}(2) + B_{\bar{N}}(N-67) + B_{\bar{N}}(326) = 2 + (N-67) + 326 = N+261 \\
&(N \geq 326)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+201) &= B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+200)) + B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+199)) + B_{\bar{N}}(2N+201-B_{\bar{N}}(2N+198)) \\
&= B_{\bar{N}}(2N+201-(N+261)) + B_{\bar{N}}(2N+201-(2N+198)) + B_{\bar{N}}(2N+201-(N+267)) \\
&= B_{\bar{N}}(N-60) + B_{\bar{N}}(3) + B_{\bar{N}}(N-66) = (N-60) + 3 + (N-66) = 2N-123 \\
&(N \geq 289)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+202) &= B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+201)) + B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+200)) + B_{\bar{N}}(2N+202-B_{\bar{N}}(2N+199)) \\
&= B_{\bar{N}}(2N+202-(2N-123)) + B_{\bar{N}}(2N+202-(N+261)) + B_{\bar{N}}(2N+202-(2N+198)) \\
&= B_{\bar{N}}(325) + B_{\bar{N}}(N-59) + B_{\bar{N}}(4) = 325 + (N-59) + 4 = N+270 \\
&(N \geq 325)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+203) &= B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+201))+B_{\bar{N}}(2N+203-B_{\bar{N}}(2N+200)) \\
&= B_{\bar{N}}(2N+203-(N+270))+B_{\bar{N}}(2N+203-(2N-123))+B_{\bar{N}}(2N+203-(N+261)) \\
&= B_{\bar{N}}(N-67)+B_{\bar{N}}(326)+B_{\bar{N}}(N-58)=(N-67)+326+(N-58)=2N+201 \\
&(N \geq 326)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+204) &= B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+202))+B_{\bar{N}}(2N+204-B_{\bar{N}}(2N+201)) \\
&= B_{\bar{N}}(2N+204-(2N+201))+B_{\bar{N}}(2N+204-(N+270))+B_{\bar{N}}(2N+204-(2N-123)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(N-66)+B_{\bar{N}}(327)=3+(N-66)+327=N+264 \\
&(N \geq 327)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+205) &= B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+203))+B_{\bar{N}}(2N+205-B_{\bar{N}}(2N+202)) \\
&= B_{\bar{N}}(2N+205-(N+264))+B_{\bar{N}}(2N+205-(2N+201))+B_{\bar{N}}(2N+205-(N+270)) \\
&= B_{\bar{N}}(N-59)+B_{\bar{N}}(4)+B_{\bar{N}}(N-65)=(N-59)+4+(N-65)=2N-120 \\
&(N \geq 290)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+206) &= B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+204))+B_{\bar{N}}(2N+206-B_{\bar{N}}(2N+203)) \\
&= B_{\bar{N}}(2N+206-(2N-120))+B_{\bar{N}}(2N+206-(N+264))+B_{\bar{N}}(2N+206-(2N+201)) \\
&= B_{\bar{N}}(326)+B_{\bar{N}}(N-58)+B_{\bar{N}}(5)=326+(N-58)+5=N+273 \\
&(N \geq 326)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+207) &= B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+205))+B_{\bar{N}}(2N+207-B_{\bar{N}}(2N+204)) \\
&= B_{\bar{N}}(2N+207-(N+273))+B_{\bar{N}}(2N+207-(2N-120))+B_{\bar{N}}(2N+207-(N+264)) \\
&= B_{\bar{N}}(N-66)+B_{\bar{N}}(327)+B_{\bar{N}}(N-57)=(N-66)+327+(N-57)=2N+204 \\
&(N \geq 327)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+208) &= B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+206))+B_{\bar{N}}(2N+208-B_{\bar{N}}(2N+205)) \\
&= B_{\bar{N}}(2N+208-(2N+204))+B_{\bar{N}}(2N+208-(N+273))+B_{\bar{N}}(2N+208-(2N-120)) \\
&= B_{\bar{N}}(4)+B_{\bar{N}}(N-65)+B_{\bar{N}}(328) = 4+(N-65)+328 = N+267 \\
&(N \geq 328)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+209) &= B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+207))+B_{\bar{N}}(2N+209-B_{\bar{N}}(2N+206)) \\
&= B_{\bar{N}}(2N+209-(N+267))+B_{\bar{N}}(2N+209-(2N+204))+B_{\bar{N}}(2N+209-(N+273)) \\
&= B_{\bar{N}}(N-58)+B_{\bar{N}}(5)+B_{\bar{N}}(N-64) = (N-58)+5+(N-64) = 2N-117 \\
&(N \geq 291)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+210) &= B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+208))+B_{\bar{N}}(2N+210-B_{\bar{N}}(2N+207)) \\
&= B_{\bar{N}}(2N+210-(2N-117))+B_{\bar{N}}(2N+210-(N+267))+B_{\bar{N}}(2N+210-(2N+204)) \\
&= B_{\bar{N}}(327)+B_{\bar{N}}(N-57)+B_{\bar{N}}(6) = 327+(N-57)+6 = N+276 \\
&(N \geq 327)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+211) &= B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+209))+B_{\bar{N}}(2N+211-B_{\bar{N}}(2N+208)) \\
&= B_{\bar{N}}(2N+211-(N+276))+B_{\bar{N}}(2N+211-(2N-117))+B_{\bar{N}}(2N+211-(N+267)) \\
&= B_{\bar{N}}(N-65)+B_{\bar{N}}(328)+B_{\bar{N}}(N-56) = (N-65)+328+(N-56) = 2N+207 \\
&(N \geq 328)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+212) &= B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+210))+B_{\bar{N}}(2N+212-B_{\bar{N}}(2N+209)) \\
&= B_{\bar{N}}(2N+212-(2N+207))+B_{\bar{N}}(2N+212-(N+276))+B_{\bar{N}}(2N+212-(2N-117)) \\
&= B_{\bar{N}}(5)+B_{\bar{N}}(N-64)+B_{\bar{N}}(329) = 5+(N-64)+329 = N+270 \\
&(N \geq 329)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+213) &= B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+211))+B_{\bar{N}}(2N+213-B_{\bar{N}}(2N+210)) \\
&= B_{\bar{N}}(2N+213-(N+270))+B_{\bar{N}}(2N+213-(2N+207))+B_{\bar{N}}(2N+213-(N+276)) \\
&= B_{\bar{N}}(N-57)+B_{\bar{N}}(6)+B_{\bar{N}}(N-63)=(N-57)+6+(N-63)=2N-114 \\
&(N \geq 292)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+214) &= B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+212))+B_{\bar{N}}(2N+214-B_{\bar{N}}(2N+211)) \\
&= B_{\bar{N}}(2N+214-(2N-114))+B_{\bar{N}}(2N+214-(N+270))+B_{\bar{N}}(2N+214-(2N+207)) \\
&= B_{\bar{N}}(328)+B_{\bar{N}}(N-56)+B_{\bar{N}}(7)=328+(N-56)+7=N+279 \\
&(N \geq 328)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+215) &= B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+213))+B_{\bar{N}}(2N+215-B_{\bar{N}}(2N+212)) \\
&= B_{\bar{N}}(2N+215-(N+279))+B_{\bar{N}}(2N+215-(2N-114))+B_{\bar{N}}(2N+215-(N+270)) \\
&= B_{\bar{N}}(N-64)+B_{\bar{N}}(329)+B_{\bar{N}}(N-55)=(N-64)+329+(N-55)=2N+210 \\
&(N \geq 329)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+216) &= B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+214))+B_{\bar{N}}(2N+216-B_{\bar{N}}(2N+213)) \\
&= B_{\bar{N}}(2N+216-(2N+210))+B_{\bar{N}}(2N+216-(N+279))+B_{\bar{N}}(2N+216-(2N-114)) \\
&= B_{\bar{N}}(6)+B_{\bar{N}}(N-63)+B_{\bar{N}}(330)=6+(N-63)+330=N+273 \\
&(N \geq 330)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+217) &= B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+215))+B_{\bar{N}}(2N+217-B_{\bar{N}}(2N+214)) \\
&= B_{\bar{N}}(2N+217-(N+273))+B_{\bar{N}}(2N+217-(2N+210))+B_{\bar{N}}(2N+217-(N+279)) \\
&= B_{\bar{N}}(N-56)+B_{\bar{N}}(7)+B_{\bar{N}}(N-62)=(N-56)+7+(N-62)=2N-111 \\
&(N \geq 293)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+218) &= B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+216))+B_{\bar{N}}(2N+218-B_{\bar{N}}(2N+215)) \\
&= B_{\bar{N}}(2N+218-(2N-111))+B_{\bar{N}}(2N+218-(N+273))+B_{\bar{N}}(2N+218-(2N+210)) \\
&= B_{\bar{N}}(329)+B_{\bar{N}}(N-55)+B_{\bar{N}}(8) = 329+(N-55)+8 = N+282 \\
&(N \geq 329)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+219) &= B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+217))+B_{\bar{N}}(2N+219-B_{\bar{N}}(2N+216)) \\
&= B_{\bar{N}}(2N+219-(N+282))+B_{\bar{N}}(2N+219-(2N-111))+B_{\bar{N}}(2N+219-(N+273)) \\
&= B_{\bar{N}}(N-63)+B_{\bar{N}}(330)+B_{\bar{N}}(N-54) = (N-63)+330+(N-54) = 2N+213 \\
&(N \geq 330)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+220) &= B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+218))+B_{\bar{N}}(2N+220-B_{\bar{N}}(2N+217)) \\
&= B_{\bar{N}}(2N+220-(2N+213))+B_{\bar{N}}(2N+220-(N+282))+B_{\bar{N}}(2N+220-(2N-111)) \\
&= B_{\bar{N}}(7)+B_{\bar{N}}(N-62)+B_{\bar{N}}(331) = 7+(N-62)+331 = N+276 \\
&(N \geq 331)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+221) &= B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+219))+B_{\bar{N}}(2N+221-B_{\bar{N}}(2N+218)) \\
&= B_{\bar{N}}(2N+221-(N+276))+B_{\bar{N}}(2N+221-(2N+213))+B_{\bar{N}}(2N+221-(N+282)) \\
&= B_{\bar{N}}(N-55)+B_{\bar{N}}(8)+B_{\bar{N}}(N-61) = (N-55)+8+(N-61) = 2N-108 \\
&(N \geq 294)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+222) &= B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+220))+B_{\bar{N}}(2N+222-B_{\bar{N}}(2N+219)) \\
&= B_{\bar{N}}(2N+222-(2N-108))+B_{\bar{N}}(2N+222-(N+276))+B_{\bar{N}}(2N+222-(2N+213)) \\
&= B_{\bar{N}}(330)+B_{\bar{N}}(N-54)+B_{\bar{N}}(9) = 330+(N-54)+9 = N+285 \\
&(N \geq 330)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+223) &= B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+221))+B_{\bar{N}}(2N+223-B_{\bar{N}}(2N+220)) \\
&= B_{\bar{N}}(2N+223-(N+285))+B_{\bar{N}}(2N+223-(2N-108))+B_{\bar{N}}(2N+223-(N+276)) \\
&= B_{\bar{N}}(N-62)+B_{\bar{N}}(331)+B_{\bar{N}}(N-53) = (N-62)+331+(N-53) = 2N+216 \\
&(N \geq 331)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+224) &= B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+222))+B_{\bar{N}}(2N+224-B_{\bar{N}}(2N+221)) \\
&= B_{\bar{N}}(2N+224-(2N+216))+B_{\bar{N}}(2N+224-(N+285))+B_{\bar{N}}(2N+224-(2N-108)) \\
&= B_{\bar{N}}(8)+B_{\bar{N}}(N-61)+B_{\bar{N}}(332) = 8+(N-61)+332 = N+279 \\
&(N \geq 332)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+225) &= B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+223))+B_{\bar{N}}(2N+225-B_{\bar{N}}(2N+222)) \\
&= B_{\bar{N}}(2N+225-(N+279))+B_{\bar{N}}(2N+225-(2N+216))+B_{\bar{N}}(2N+225-(N+285)) \\
&= B_{\bar{N}}(N-54)+B_{\bar{N}}(9)+B_{\bar{N}}(N-60) = (N-54)+9+(N-60) = 2N-105 \\
&(N \geq 295)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+226) &= B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+224))+B_{\bar{N}}(2N+226-B_{\bar{N}}(2N+223)) \\
&= B_{\bar{N}}(2N+226-(2N-105))+B_{\bar{N}}(2N+226-(N+279))+B_{\bar{N}}(2N+226-(2N+216)) \\
&= B_{\bar{N}}(331)+B_{\bar{N}}(N-53)+B_{\bar{N}}(10) = 331+(N-53)+10 = N+288 \\
&(N \geq 331)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+227) &= B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+225))+B_{\bar{N}}(2N+227-B_{\bar{N}}(2N+224)) \\
&= B_{\bar{N}}(2N+227-(N+288))+B_{\bar{N}}(2N+227-(2N-105))+B_{\bar{N}}(2N+227-(N+279)) \\
&= B_{\bar{N}}(N-61)+B_{\bar{N}}(332)+B_{\bar{N}}(N-52) = (N-61)+332+(N-52) = 2N+219 \\
&(N \geq 332)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+228) &= B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+226))+B_{\bar{N}}(2N+228-B_{\bar{N}}(2N+225)) \\
&= B_{\bar{N}}(2N+228-(2N+219))+B_{\bar{N}}(2N+228-(N+288))+B_{\bar{N}}(2N+228-(2N-105)) \\
&= B_{\bar{N}}(9)+B_{\bar{N}}(N-60)+B_{\bar{N}}(333) = 9+(N-60)+333 = N+282 \\
&(N \geq 333)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+229) &= B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+227))+B_{\bar{N}}(2N+229-B_{\bar{N}}(2N+226)) \\
&= B_{\bar{N}}(2N+229-(N+282))+B_{\bar{N}}(2N+229-(2N+219))+B_{\bar{N}}(2N+229-(N+288)) \\
&= B_{\bar{N}}(N-53)+B_{\bar{N}}(10)+B_{\bar{N}}(N-59) = (N-53)+10+(N-59) = 2N-102 \\
&(N \geq 296)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+230) &= B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+228))+B_{\bar{N}}(2N+230-B_{\bar{N}}(2N+227)) \\
&= B_{\bar{N}}(2N+230-(2N-102))+B_{\bar{N}}(2N+230-(N+282))+B_{\bar{N}}(2N+230-(2N+219)) \\
&= B_{\bar{N}}(332)+B_{\bar{N}}(N-52)+B_{\bar{N}}(11) = 332+(N-52)+11 = N+291 \\
&(N \geq 332)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+231) &= B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+229))+B_{\bar{N}}(2N+231-B_{\bar{N}}(2N+228)) \\
&= B_{\bar{N}}(2N+231-(N+291))+B_{\bar{N}}(2N+231-(2N-102))+B_{\bar{N}}(2N+231-(N+282)) \\
&= B_{\bar{N}}(N-60)+B_{\bar{N}}(333)+B_{\bar{N}}(N-51) = (N-60)+333+(N-51) = 2N+222 \\
&(N \geq 333)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+232) &= B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+230))+B_{\bar{N}}(2N+232-B_{\bar{N}}(2N+229)) \\
&= B_{\bar{N}}(2N+232-(2N+222))+B_{\bar{N}}(2N+232-(N+291))+B_{\bar{N}}(2N+232-(2N-102)) \\
&= B_{\bar{N}}(10)+B_{\bar{N}}(N-59)+B_{\bar{N}}(334) = 10+(N-59)+334 = N+285 \\
&(N \geq 334)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+233) &= B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+231))+B_{\bar{N}}(2N+233-B_{\bar{N}}(2N+230)) \\
&= B_{\bar{N}}(2N+233-(N+285))+B_{\bar{N}}(2N+233-(2N+222))+B_{\bar{N}}(2N+233-(N+291)) \\
&= B_{\bar{N}}(N-52)+B_{\bar{N}}(11)+B_{\bar{N}}(N-58) = (N-52)+11+(N-58) = 2N-99 \\
&(N \geq 297)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+234) &= B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+232))+B_{\bar{N}}(2N+234-B_{\bar{N}}(2N+231)) \\
&= B_{\bar{N}}(2N+234-(2N-99))+B_{\bar{N}}(2N+234-(N+285))+B_{\bar{N}}(2N+234-(2N+222)) \\
&= B_{\bar{N}}(333)+B_{\bar{N}}(N-51)+B_{\bar{N}}(12) = 333+(N-51)+12 = N+294 \\
&(N \geq 333)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+235) &= B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+233))+B_{\bar{N}}(2N+235-B_{\bar{N}}(2N+232)) \\
&= B_{\bar{N}}(2N+235-(N+294))+B_{\bar{N}}(2N+235-(2N-99))+B_{\bar{N}}(2N+235-(N+285)) \\
&= B_{\bar{N}}(N-59)+B_{\bar{N}}(334)+B_{\bar{N}}(N-50) = (N-59)+334+(N-50) = 2N+225 \\
&(N \geq 334)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+236) &= B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+234))+B_{\bar{N}}(2N+236-B_{\bar{N}}(2N+233)) \\
&= B_{\bar{N}}(2N+236-(2N+225))+B_{\bar{N}}(2N+236-(N+294))+B_{\bar{N}}(2N+236-(2N-99)) \\
&= B_{\bar{N}}(11)+B_{\bar{N}}(N-58)+B_{\bar{N}}(335) = 11+(N-58)+335 = N+288 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+237) &= B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+235))+B_{\bar{N}}(2N+237-B_{\bar{N}}(2N+234)) \\
&= B_{\bar{N}}(2N+237-(N+288))+B_{\bar{N}}(2N+237-(2N+225))+B_{\bar{N}}(2N+237-(N+294)) \\
&= B_{\bar{N}}(N-51)+B_{\bar{N}}(12)+B_{\bar{N}}(N-57) = (N-51)+12+(N-57) = 2N-96 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+238) &= B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+236))+B_{\bar{N}}(2N+238-B_{\bar{N}}(2N+235)) \\
&= B_{\bar{N}}(2N+238-(2N-96))+B_{\bar{N}}(2N+238-(N+288))+B_{\bar{N}}(2N+238-(2N+225)) \\
&= B_{\bar{N}}(334)+B_{\bar{N}}(N-50)+B_{\bar{N}}(13) = 334+(N-50)+13 = N+297 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+239) &= B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+237))+B_{\bar{N}}(2N+239-B_{\bar{N}}(2N+236)) \\
&= B_{\bar{N}}(2N+239-(N+297))+B_{\bar{N}}(2N+239-(2N-96))+B_{\bar{N}}(2N+239-(N+288)) \\
&= B_{\bar{N}}(N-58)+B_{\bar{N}}(335)+B_{\bar{N}}(N-49) = (N-58)+335+(N-49) = 2N+228 \\
&(N \geq 335)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+240) &= B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+238))+B_{\bar{N}}(2N+240-B_{\bar{N}}(2N+237)) \\
&= B_{\bar{N}}(2N+240-(2N+228))+B_{\bar{N}}(2N+240-(N+297))+B_{\bar{N}}(2N+240-(2N-96)) \\
&= B_{\bar{N}}(12)+B_{\bar{N}}(N-57)+B_{\bar{N}}(336) = 12+(N-57)+336 = N+291 \\
&(N \geq 336)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+241) &= B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+239))+B_{\bar{N}}(2N+241-B_{\bar{N}}(2N+238)) \\
&= B_{\bar{N}}(2N+241-(N+291))+B_{\bar{N}}(2N+241-(2N+228))+B_{\bar{N}}(2N+241-(N+297)) \\
&= B_{\bar{N}}(N-50)+B_{\bar{N}}(13)+B_{\bar{N}}(N-56) = (N-50)+13+(N-56) = 2N-93 \\
&(N \geq 299)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+242) &= B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+240))+B_{\bar{N}}(2N+242-B_{\bar{N}}(2N+239)) \\
&= B_{\bar{N}}(2N+242-(2N-93))+B_{\bar{N}}(2N+242-(N+291))+B_{\bar{N}}(2N+242-(2N+228)) \\
&= B_{\bar{N}}(335)+B_{\bar{N}}(N-49)+B_{\bar{N}}(14) = 335+(N-49)+14 = N+300 \\
&(N \geq 335)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+243) &= B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+241))+B_{\bar{N}}(2N+243-B_{\bar{N}}(2N+240)) \\
&= B_{\bar{N}}(2N+243-(N+300))+B_{\bar{N}}(2N+243-(2N-93))+B_{\bar{N}}(2N+243-(N+291)) \\
&= B_{\bar{N}}(N-57)+B_{\bar{N}}(336)+B_{\bar{N}}(N-48)=(N-57)+336+(N-48)=2N+231 \\
&(N \geq 336)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+244) &= B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+242))+B_{\bar{N}}(2N+244-B_{\bar{N}}(2N+241)) \\
&= B_{\bar{N}}(2N+244-(2N+231))+B_{\bar{N}}(2N+244-(N+300))+B_{\bar{N}}(2N+244-(2N-93)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(N-56)+B_{\bar{N}}(337)=13+(N-56)+337=N+294 \\
&(N \geq 337)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+245) &= B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+243))+B_{\bar{N}}(2N+245-B_{\bar{N}}(2N+242)) \\
&= B_{\bar{N}}(2N+245-(N+294))+B_{\bar{N}}(2N+245-(2N+231))+B_{\bar{N}}(2N+245-(N+300)) \\
&= B_{\bar{N}}(N-49)+B_{\bar{N}}(14)+B_{\bar{N}}(N-55)=(N-49)+14+(N-55)=2N-90 \\
&(N \geq 300)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+246) &= B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+244))+B_{\bar{N}}(2N+246-B_{\bar{N}}(2N+243)) \\
&= B_{\bar{N}}(2N+246-(2N-90))+B_{\bar{N}}(2N+246-(N+294))+B_{\bar{N}}(2N+246-(2N+231)) \\
&= B_{\bar{N}}(336)+B_{\bar{N}}(N-48)+B_{\bar{N}}(15)=336+(N-48)+15=N+303 \\
&(N \geq 336)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+247) &= B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+245))+B_{\bar{N}}(2N+247-B_{\bar{N}}(2N+244)) \\
&= B_{\bar{N}}(2N+247-(N+303))+B_{\bar{N}}(2N+247-(2N-90))+B_{\bar{N}}(2N+247-(N+294)) \\
&= B_{\bar{N}}(N-56)+B_{\bar{N}}(337)+B_{\bar{N}}(N-47)=(N-56)+337+(N-47)=2N+234 \\
&(N \geq 337)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+248) &= B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+246))+B_{\bar{N}}(2N+248-B_{\bar{N}}(2N+245)) \\
&= B_{\bar{N}}(2N+248-(2N+234))+B_{\bar{N}}(2N+248-(N+303))+B_{\bar{N}}(2N+248-(2N-90)) \\
&= B_{\bar{N}}(14)+B_{\bar{N}}(N-55)+B_{\bar{N}}(338) = 14+(N-55)+338 = N+297 \\
&(N \geq 338)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+249) &= B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+247))+B_{\bar{N}}(2N+249-B_{\bar{N}}(2N+246)) \\
&= B_{\bar{N}}(2N+249-(N+297))+B_{\bar{N}}(2N+249-(2N+234))+B_{\bar{N}}(2N+249-(N+303)) \\
&= B_{\bar{N}}(N-48)+B_{\bar{N}}(15)+B_{\bar{N}}(N-54) = (N-48)+15+(N-54) = 2N-87 \\
&(N \geq 301)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+250) &= B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+248))+B_{\bar{N}}(2N+250-B_{\bar{N}}(2N+247)) \\
&= B_{\bar{N}}(2N+250-(2N-87))+B_{\bar{N}}(2N+250-(N+297))+B_{\bar{N}}(2N+250-(2N+234)) \\
&= B_{\bar{N}}(337)+B_{\bar{N}}(N-47)+B_{\bar{N}}(16) = 337+(N-47)+16 = N+306 \\
&(N \geq 337)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+251) &= B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+249))+B_{\bar{N}}(2N+251-B_{\bar{N}}(2N+248)) \\
&= B_{\bar{N}}(2N+251-(N+306))+B_{\bar{N}}(2N+251-(2N-87))+B_{\bar{N}}(2N+251-(N+297)) \\
&= B_{\bar{N}}(N-55)+B_{\bar{N}}(338)+B_{\bar{N}}(N-46) = (N-55)+338+(N-46) = 2N+237 \\
&(N \geq 338)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+252) &= B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+250))+B_{\bar{N}}(2N+252-B_{\bar{N}}(2N+249)) \\
&= B_{\bar{N}}(2N+252-(2N+237))+B_{\bar{N}}(2N+252-(N+306))+B_{\bar{N}}(2N+252-(2N-87)) \\
&= B_{\bar{N}}(15)+B_{\bar{N}}(N-54)+B_{\bar{N}}(339) = 15+(N-54)+339 = N+300 \\
&(N \geq 339)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+253) &= B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+251))+B_{\bar{N}}(2N+253-B_{\bar{N}}(2N+250)) \\
&= B_{\bar{N}}(2N+253-(N+300))+B_{\bar{N}}(2N+253-(2N+237))+B_{\bar{N}}(2N+253-(N+306)) \\
&= B_{\bar{N}}(N-47)+B_{\bar{N}}(16)+B_{\bar{N}}(N-53)=(N-47)+16+(N-53)=2N-84 \\
&(N \geq 322)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+254) &= B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+253))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+252))+B_{\bar{N}}(2N+254-B_{\bar{N}}(2N+251)) \\
&= B_{\bar{N}}(2N+254-(2N-84))+B_{\bar{N}}(2N+254-(N+300))+B_{\bar{N}}(2N+254-(2N+237)) \\
&= B_{\bar{N}}(338)+B_{\bar{N}}(N-46)+B_{\bar{N}}(17)=338+(N-46)+17=N+309 \\
&(N \geq 2087)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+255) &= B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+254))+B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+253))+B_{\bar{N}}(2N+255-B_{\bar{N}}(2N+252)) \\
&= B_{\bar{N}}(2N+255-(N+309))+B_{\bar{N}}(2N+255-(2N-84))+B_{\bar{N}}(2N+255-(N+300)) \\
&= B_{\bar{N}}(N-54)+B_{\bar{N}}(339)+B_{\bar{N}}(N-45)=(N-54)+339+(N-45)=2N+240 \\
&(N \geq 339)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+256) &= B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+255))+B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+254))+B_{\bar{N}}(2N+256-B_{\bar{N}}(2N+253)) \\
&= B_{\bar{N}}(2N+256-(2N+240))+B_{\bar{N}}(2N+256-(N+309))+B_{\bar{N}}(2N+256-(2N-84)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N-53)+B_{\bar{N}}(340)=16+(N-53)+340=N+303 \\
&(N \geq 340)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+257) &= B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+256))+B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+255))+B_{\bar{N}}(2N+257-B_{\bar{N}}(2N+254)) \\
&= B_{\bar{N}}(2N+257-(N+303))+B_{\bar{N}}(2N+257-(2N+240))+B_{\bar{N}}(2N+257-(N+309)) \\
&= B_{\bar{N}}(N-46)+B_{\bar{N}}(17)+B_{\bar{N}}(N-52)=(N-46)+17+(N-52)=2N-81 \\
&(N \geq 303)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+258) &= B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+257))+B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+256))+B_{\bar{N}}(2N+258-B_{\bar{N}}(2N+255)) \\
&= B_{\bar{N}}(2N+258-(2N-81))+B_{\bar{N}}(2N+258-(N+303))+B_{\bar{N}}(2N+258-(2N+240)) \\
&= B_{\bar{N}}(339)+B_{\bar{N}}(N-45)+B_{\bar{N}}(18) = 339+(N-45)+18 = N+312 \\
&(N \geq 339)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+259) &= B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+258))+B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+257))+B_{\bar{N}}(2N+259-B_{\bar{N}}(2N+256)) \\
&= B_{\bar{N}}(2N+259-(N+312))+B_{\bar{N}}(2N+259-(2N-81))+B_{\bar{N}}(2N+259-(N+303)) \\
&= B_{\bar{N}}(N-53)+B_{\bar{N}}(340)+B_{\bar{N}}(N-44) = (N-53)+340+(N-44) = 2N+243 \\
&(N \geq 340)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+260) &= B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+259))+B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+258))+B_{\bar{N}}(2N+260-B_{\bar{N}}(2N+257)) \\
&= B_{\bar{N}}(2N+260-(2N+243))+B_{\bar{N}}(2N+260-(N+312))+B_{\bar{N}}(2N+260-(2N-81)) \\
&= B_{\bar{N}}(17)+B_{\bar{N}}(N-52)+B_{\bar{N}}(341) = 17+(N-52)+341 = N+306 \\
&(N \geq 341)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+261) &= B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+260))+B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+259))+B_{\bar{N}}(2N+261-B_{\bar{N}}(2N+258)) \\
&= B_{\bar{N}}(2N+261-(N+306))+B_{\bar{N}}(2N+261-(2N+243))+B_{\bar{N}}(2N+261-(N+312)) \\
&= B_{\bar{N}}(N-45)+B_{\bar{N}}(18)+B_{\bar{N}}(N-51) = (N-45)+18+(N-51) = 2N-78 \\
&(N \geq 304)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+262) &= B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+261))+B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+260))+B_{\bar{N}}(2N+262-B_{\bar{N}}(2N+259)) \\
&= B_{\bar{N}}(2N+262-(2N-78))+B_{\bar{N}}(2N+262-(N+306))+B_{\bar{N}}(2N+262-(2N+243)) \\
&= B_{\bar{N}}(340)+B_{\bar{N}}(N-44)+B_{\bar{N}}(19) = 340+(N-44)+19 = N+315 \\
&(N \geq 340)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+263) &= B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+262))+B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+261))+B_{\bar{N}}(2N+263-B_{\bar{N}}(2N+260)) \\
&= B_{\bar{N}}(2N+263-(N+315))+B_{\bar{N}}(2N+263-(2N-78))+B_{\bar{N}}(2N+263-(N+306)) \\
&= B_{\bar{N}}(N-52)+B_{\bar{N}}(341)+B_{\bar{N}}(N-43) = (N-52)+341+(N-43) = 2N+246 \\
&(N \geq 341)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+264) &= B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+263))+B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+262))+B_{\bar{N}}(2N+264-B_{\bar{N}}(2N+261)) \\
&= B_{\bar{N}}(2N+264-(2N+246))+B_{\bar{N}}(2N+264-(N+315))+B_{\bar{N}}(2N+264-(2N-78)) \\
&= B_{\bar{N}}(18)+B_{\bar{N}}(N-51)+B_{\bar{N}}(342) = 18+(N-51)+342 = N+309 \\
&(N \geq 342)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+265) &= B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+264))+B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+263))+B_{\bar{N}}(2N+265-B_{\bar{N}}(2N+262)) \\
&= B_{\bar{N}}(2N+265-(N+309))+B_{\bar{N}}(2N+265-(2N+246))+B_{\bar{N}}(2N+265-(N+315)) \\
&= B_{\bar{N}}(N-44)+B_{\bar{N}}(19)+B_{\bar{N}}(N-50) = (N-44)+19+(N-50) = 2N-75 \\
&(N \geq 305)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+266) &= B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+265))+B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+264))+B_{\bar{N}}(2N+266-B_{\bar{N}}(2N+263)) \\
&= B_{\bar{N}}(2N+266-(2N-75))+B_{\bar{N}}(2N+266-(N+309))+B_{\bar{N}}(2N+266-(2N+246)) \\
&= B_{\bar{N}}(341)+B_{\bar{N}}(N-43)+B_{\bar{N}}(20) = 341+(N-43)+20 = N+318 \\
&(N \geq 341)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+267) &= B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+266))+B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+265))+B_{\bar{N}}(2N+267-B_{\bar{N}}(2N+264)) \\
&= B_{\bar{N}}(2N+267-(N+318))+B_{\bar{N}}(2N+267-(2N-75))+B_{\bar{N}}(2N+267-(N+309)) \\
&= B_{\bar{N}}(N-51)+B_{\bar{N}}(342)+B_{\bar{N}}(N-42) = (N-51)+342+(N-42) = 2N+249 \\
&(N \geq 342)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+268) &= B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+267))+B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+266))+B_{\bar{N}}(2N+268-B_{\bar{N}}(2N+265)) \\
&= B_{\bar{N}}(2N+268-(2N+249))+B_{\bar{N}}(2N+268-(N+318))+B_{\bar{N}}(2N+268-(2N-75)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(N-50)+B_{\bar{N}}(343) = 19+(N-50)+343 = N+312 \\
&(N \geq 343)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+269) &= B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+268))+B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+267))+B_{\bar{N}}(2N+269-B_{\bar{N}}(2N+266)) \\
&= B_{\bar{N}}(2N+269-(N+312))+B_{\bar{N}}(2N+269-(2N+249))+B_{\bar{N}}(2N+269-(N+318)) \\
&= B_{\bar{N}}(N-43)+B_{\bar{N}}(20)+B_{\bar{N}}(N-49) = (N-43)+20+(N-49) = 2N-72 \\
&(N \geq 306)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+270) &= B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+269))+B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+268))+B_{\bar{N}}(2N+270-B_{\bar{N}}(2N+267)) \\
&= B_{\bar{N}}(2N+270-(2N-72))+B_{\bar{N}}(2N+270-(N+312))+B_{\bar{N}}(2N+270-(2N+249)) \\
&= B_{\bar{N}}(342)+B_{\bar{N}}(N-42)+B_{\bar{N}}(21) = 342+(N-42)+21 = N+321 \\
&(N \geq 342)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+271) &= B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+270))+B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+269))+B_{\bar{N}}(2N+271-B_{\bar{N}}(2N+268)) \\
&= B_{\bar{N}}(2N+271-(N+321))+B_{\bar{N}}(2N+271-(2N-72))+B_{\bar{N}}(2N+271-(N+312)) \\
&= B_{\bar{N}}(N-50)+B_{\bar{N}}(343)+B_{\bar{N}}(N-41) = (N-50)+343+(N-41) = 2N+252 \\
&(N \geq 343)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+272) &= B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+271))+B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+270))+B_{\bar{N}}(2N+272-B_{\bar{N}}(2N+269)) \\
&= B_{\bar{N}}(2N+272-(2N+252))+B_{\bar{N}}(2N+272-(N+321))+B_{\bar{N}}(2N+272-(2N-72)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(N-49)+B_{\bar{N}}(344) = 20+(N-49)+344 = N+315 \\
&(N \geq 344)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+273) &= B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+272))+B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+271))+B_{\bar{N}}(2N+273-B_{\bar{N}}(2N+270)) \\
&= B_{\bar{N}}(2N+273-(N+315))+B_{\bar{N}}(2N+273-(2N+252))+B_{\bar{N}}(2N+273-(N+321)) \\
&= B_{\bar{N}}(N-42)+B_{\bar{N}}(21)+B_{\bar{N}}(N-48) = (N-42)+21+(N-48) = 2N-69 \\
&(N \geq 307)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+274) &= B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+273))+B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+272))+B_{\bar{N}}(2N+274-B_{\bar{N}}(2N+271)) \\
&= B_{\bar{N}}(2N+274-(2N-69))+B_{\bar{N}}(2N+274-(N+315))+B_{\bar{N}}(2N+274-(2N+252)) \\
&= B_{\bar{N}}(343)+B_{\bar{N}}(N-41)+B_{\bar{N}}(22) = 343+(N-41)+22 = N+324 \\
&(N \geq 343)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+275) &= B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+274))+B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+273))+B_{\bar{N}}(2N+275-B_{\bar{N}}(2N+272)) \\
&= B_{\bar{N}}(2N+275-(N+324))+B_{\bar{N}}(2N+275-(2N-69))+B_{\bar{N}}(2N+275-(N+315)) \\
&= B_{\bar{N}}(N-49)+B_{\bar{N}}(344)+B_{\bar{N}}(N-40) = (N-49)+344+(N-40) = 2N+255 \\
&(N \geq 344)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+276) &= B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+275))+B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+274))+B_{\bar{N}}(2N+276-B_{\bar{N}}(2N+273)) \\
&= B_{\bar{N}}(2N+276-(2N+255))+B_{\bar{N}}(2N+276-(N+324))+B_{\bar{N}}(2N+276-(2N-69)) \\
&= B_{\bar{N}}(21)+B_{\bar{N}}(N-48)+B_{\bar{N}}(345) = 21+(N-48)+345 = N+318 \\
&(N \geq 345)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+277) &= B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+276))+B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+275))+B_{\bar{N}}(2N+277-B_{\bar{N}}(2N+274)) \\
&= B_{\bar{N}}(2N+277-(N+318))+B_{\bar{N}}(2N+277-(2N+255))+B_{\bar{N}}(2N+277-(N+324)) \\
&= B_{\bar{N}}(N-41)+B_{\bar{N}}(22)+B_{\bar{N}}(N-47) = (N-41)+22+(N-47) = 2N-66 \\
&(N \geq 308)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+278) &= B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+277))+B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+276))+B_{\bar{N}}(2N+278-B_{\bar{N}}(2N+275)) \\
&= B_{\bar{N}}(2N+278-(2N-66))+B_{\bar{N}}(2N+278-(N+318))+B_{\bar{N}}(2N+278-(2N+255)) \\
&= B_{\bar{N}}(344)+B_{\bar{N}}(N-40)+B_{\bar{N}}(23) = 344+(N-40)+23 = N+327 \\
&(N \geq 344)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+279) &= B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+278))+B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+277))+B_{\bar{N}}(2N+279-B_{\bar{N}}(2N+276)) \\
&= B_{\bar{N}}(2N+279-(N+327))+B_{\bar{N}}(2N+279-(2N-66))+B_{\bar{N}}(2N+279-(N+318)) \\
&= B_{\bar{N}}(N-48)+B_{\bar{N}}(345)+B_{\bar{N}}(N-39) = (N-48)+345+(N-39) = 2N+258 \\
&(N \geq 345)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+280) &= B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+279))+B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+278))+B_{\bar{N}}(2N+280-B_{\bar{N}}(2N+277)) \\
&= B_{\bar{N}}(2N+280-(2N+258))+B_{\bar{N}}(2N+280-(N+327))+B_{\bar{N}}(2N+280-(2N-66)) \\
&= B_{\bar{N}}(22)+B_{\bar{N}}(N-47)+B_{\bar{N}}(346) = 22+(N-47)+346 = N+321 \\
&(N \geq 346)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+281) &= B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+280))+B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+279))+B_{\bar{N}}(2N+281-B_{\bar{N}}(2N+278)) \\
&= B_{\bar{N}}(2N+281-(N+321))+B_{\bar{N}}(2N+281-(2N+258))+B_{\bar{N}}(2N+281-(N+327)) \\
&= B_{\bar{N}}(N-40)+B_{\bar{N}}(23)+B_{\bar{N}}(N-46) = (N-40)+23+(N-46) = 2N-63 \\
&(N \geq 309)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+282) &= B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+281))+B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+280))+B_{\bar{N}}(2N+282-B_{\bar{N}}(2N+279)) \\
&= B_{\bar{N}}(2N+282-(2N-63))+B_{\bar{N}}(2N+282-(N+321))+B_{\bar{N}}(2N+282-(2N+258)) \\
&= B_{\bar{N}}(345)+B_{\bar{N}}(N-39)+B_{\bar{N}}(24) = 345+(N-39)+24 = N+330 \\
&(N \geq 345)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+283) &= B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+282))+B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+281))+B_{\bar{N}}(2N+283-B_{\bar{N}}(2N+280)) \\
&= B_{\bar{N}}(2N+283-(N+330))+B_{\bar{N}}(2N+283-(2N-63))+B_{\bar{N}}(2N+283-(N+321)) \\
&= B_{\bar{N}}(N-47)+B_{\bar{N}}(346)+B_{\bar{N}}(N-38)=(N-47)+346+(N-38)=2N+261 \\
&(N \geq 346)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+284) &= B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+283))+B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+282))+B_{\bar{N}}(2N+284-B_{\bar{N}}(2N+281)) \\
&= B_{\bar{N}}(2N+284-(2N+261))+B_{\bar{N}}(2N+284-(N+330))+B_{\bar{N}}(2N+284-(2N-63)) \\
&= B_{\bar{N}}(23)+B_{\bar{N}}(N-46)+B_{\bar{N}}(347)=23+(N-46)+347=N+324 \\
&(N \geq 347)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+285) &= B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+284))+B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+283))+B_{\bar{N}}(2N+285-B_{\bar{N}}(2N+282)) \\
&= B_{\bar{N}}(2N+285-(N+324))+B_{\bar{N}}(2N+285-(2N+261))+B_{\bar{N}}(2N+285-(N+330)) \\
&= B_{\bar{N}}(N-39)+B_{\bar{N}}(24)+B_{\bar{N}}(N-45)=(N-39)+24+(N-45)=2N-60 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+286) &= B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+285))+B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+284))+B_{\bar{N}}(2N+286-B_{\bar{N}}(2N+283)) \\
&= B_{\bar{N}}(2N+286-(2N-60))+B_{\bar{N}}(2N+286-(N+324))+B_{\bar{N}}(2N+286-(2N+261)) \\
&= B_{\bar{N}}(346)+B_{\bar{N}}(N-38)+B_{\bar{N}}(25)=346+(N-38)+25=N+333 \\
&(N \geq 346)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+287) &= B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+286))+B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+285))+B_{\bar{N}}(2N+287-B_{\bar{N}}(2N+284)) \\
&= B_{\bar{N}}(2N+287-(N+333))+B_{\bar{N}}(2N+287-(2N-60))+B_{\bar{N}}(2N+287-(N+324)) \\
&= B_{\bar{N}}(N-46)+B_{\bar{N}}(347)+B_{\bar{N}}(N-37)=(N-46)+347+(N-37)=2N+264 \\
&(N \geq 347)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+288) &= B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+287))+B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+286))+B_{\bar{N}}(2N+288-B_{\bar{N}}(2N+285)) \\
&= B_{\bar{N}}(2N+288-(2N+264))+B_{\bar{N}}(2N+288-(N+333))+B_{\bar{N}}(2N+288-(2N-60)) \\
&= B_{\bar{N}}(24)+B_{\bar{N}}(N-45)+B_{\bar{N}}(348) = 24+(N-45)+348 = N+327 \\
&(N \geq 348)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+289) &= B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+288))+B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+287))+B_{\bar{N}}(2N+289-B_{\bar{N}}(2N+286)) \\
&= B_{\bar{N}}(2N+289-(N+327))+B_{\bar{N}}(2N+289-(2N+264))+B_{\bar{N}}(2N+289-(N+333)) \\
&= B_{\bar{N}}(N-38)+B_{\bar{N}}(25)+B_{\bar{N}}(N-44) = (N-38)+25+(N-44) = 2N-57 \\
&(N \geq 311)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+290) &= B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+289))+B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+288))+B_{\bar{N}}(2N+290-B_{\bar{N}}(2N+287)) \\
&= B_{\bar{N}}(2N+290-(2N-57))+B_{\bar{N}}(2N+290-(N+327))+B_{\bar{N}}(2N+290-(2N+264)) \\
&= B_{\bar{N}}(347)+B_{\bar{N}}(N-37)+B_{\bar{N}}(26) = 347+(N-37)+26 = N+336 \\
&(N \geq 347)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+291) &= B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+290))+B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+289))+B_{\bar{N}}(2N+291-B_{\bar{N}}(2N+288)) \\
&= B_{\bar{N}}(2N+291-(N+336))+B_{\bar{N}}(2N+291-(2N-57))+B_{\bar{N}}(2N+291-(N+327)) \\
&= B_{\bar{N}}(N-45)+B_{\bar{N}}(348)+B_{\bar{N}}(N-36) = (N-45)+348+(N-36) = 2N+267 \\
&(N \geq 348)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+292) &= B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+291))+B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+290))+B_{\bar{N}}(2N+292-B_{\bar{N}}(2N+289)) \\
&= B_{\bar{N}}(2N+292-(2N+267))+B_{\bar{N}}(2N+292-(N+336))+B_{\bar{N}}(2N+292-(2N-57)) \\
&= B_{\bar{N}}(25)+B_{\bar{N}}(N-44)+B_{\bar{N}}(349) = 25+(N-44)+349 = N+330 \\
&(N \geq 349)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+293) &= B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+292))+B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+291))+B_{\bar{N}}(2N+293-B_{\bar{N}}(2N+290)) \\
&= B_{\bar{N}}(2N+293-(N+330))+B_{\bar{N}}(2N+293-(2N+267))+B_{\bar{N}}(2N+293-(N+336)) \\
&= B_{\bar{N}}(N-37)+B_{\bar{N}}(26)+B_{\bar{N}}(N-43) = (N-37)+26+(N-43) = 2N-54 \\
&(N \geq 312)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+294) &= B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+293))+B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+292))+B_{\bar{N}}(2N+294-B_{\bar{N}}(2N+291)) \\
&= B_{\bar{N}}(2N+294-(2N-54))+B_{\bar{N}}(2N+294-(N+330))+B_{\bar{N}}(2N+294-(2N+267)) \\
&= B_{\bar{N}}(348)+B_{\bar{N}}(N-36)+B_{\bar{N}}(27) = 348+(N-36)+27 = N+339 \\
&(N \geq 348)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+295) &= B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+294))+B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+293))+B_{\bar{N}}(2N+295-B_{\bar{N}}(2N+292)) \\
&= B_{\bar{N}}(2N+295-(N+339))+B_{\bar{N}}(2N+295-(2N-54))+B_{\bar{N}}(2N+295-(N+330)) \\
&= B_{\bar{N}}(N-44)+B_{\bar{N}}(349)+B_{\bar{N}}(N-35) = (N-44)+349+(N-35) = 2N+270 \\
&(N \geq 349)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+296) &= B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+295))+B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+294))+B_{\bar{N}}(2N+296-B_{\bar{N}}(2N+293)) \\
&= B_{\bar{N}}(2N+296-(2N+270))+B_{\bar{N}}(2N+296-(N+339))+B_{\bar{N}}(2N+296-(2N-54)) \\
&= B_{\bar{N}}(26)+B_{\bar{N}}(N-43)+B_{\bar{N}}(350) = 26+(N-43)+350 = N+333 \\
&(N \geq 350)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+297) &= B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+296))+B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+295))+B_{\bar{N}}(2N+297-B_{\bar{N}}(2N+294)) \\
&= B_{\bar{N}}(2N+297-(N+333))+B_{\bar{N}}(2N+297-(2N+270))+B_{\bar{N}}(2N+297-(N+339)) \\
&= B_{\bar{N}}(N-36)+B_{\bar{N}}(27)+B_{\bar{N}}(N-42) = (N-36)+27+(N-42) = 2N-51 \\
&(N \geq 313)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+298) &= B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+297))+B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+296))+B_{\bar{N}}(2N+298-B_{\bar{N}}(2N+295)) \\
&= B_{\bar{N}}(2N+298-(2N-51))+B_{\bar{N}}(2N+298-(N+333))+B_{\bar{N}}(2N+298-(2N+270)) \\
&= B_{\bar{N}}(349)+B_{\bar{N}}(N-35)+B_{\bar{N}}(28) = 349+(N-35)+28 = N+342 \\
&(N \geq 349)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+299) &= B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+298))+B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+297))+B_{\bar{N}}(2N+299-B_{\bar{N}}(2N+296)) \\
&= B_{\bar{N}}(2N+299-(N+342))+B_{\bar{N}}(2N+299-(2N-51))+B_{\bar{N}}(2N+299-(N+333)) \\
&= B_{\bar{N}}(N-43)+B_{\bar{N}}(350)+B_{\bar{N}}(N-34) = (N-43)+350+(N-34) = 2N+273 \\
&(N \geq 350)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+300) &= B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+299))+B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+298))+B_{\bar{N}}(2N+300-B_{\bar{N}}(2N+297)) \\
&= B_{\bar{N}}(2N+300-(2N+273))+B_{\bar{N}}(2N+300-(N+342))+B_{\bar{N}}(2N+300-(2N-51)) \\
&= B_{\bar{N}}(27)+B_{\bar{N}}(N-42)+B_{\bar{N}}(351) = 27+(N-42)+351 = N+336 \\
&(N \geq 351)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+301) &= B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+300))+B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+299))+B_{\bar{N}}(2N+301-B_{\bar{N}}(2N+298)) \\
&= B_{\bar{N}}(2N+301-(N+336))+B_{\bar{N}}(2N+301-(2N+273))+B_{\bar{N}}(2N+301-(N+342)) \\
&= B_{\bar{N}}(N-35)+B_{\bar{N}}(28)+B_{\bar{N}}(N-41) = (N-35)+28+(N-41) = 2N-48 \\
&(N \geq 314)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+302) &= B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+301))+B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+300))+B_{\bar{N}}(2N+302-B_{\bar{N}}(2N+299)) \\
&= B_{\bar{N}}(2N+302-(2N-48))+B_{\bar{N}}(2N+302-(N+336))+B_{\bar{N}}(2N+302-(2N+273)) \\
&= B_{\bar{N}}(350)+B_{\bar{N}}(N-34)+B_{\bar{N}}(29) = 350+(N-34)+29 = N+345 \\
&(N \geq 350)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+303) &= B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+302))+B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+301))+B_{\bar{N}}(2N+303-B_{\bar{N}}(2N+300)) \\
&= B_{\bar{N}}(2N+303-(N+345))+B_{\bar{N}}(2N+303-(2N-48))+B_{\bar{N}}(2N+303-(N+336)) \\
&= B_{\bar{N}}(N-42)+B_{\bar{N}}(351)+B_{\bar{N}}(N-33) = (N-42)+351+(N-33) = 2N+276 \\
&(N \geq 351)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+304) &= B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+303))+B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+302))+B_{\bar{N}}(2N+304-B_{\bar{N}}(2N+301)) \\
&= B_{\bar{N}}(2N+304-(2N+276))+B_{\bar{N}}(2N+304-(N+345))+B_{\bar{N}}(2N+304-(2N-48)) \\
&= B_{\bar{N}}(28)+B_{\bar{N}}(N-41)+B_{\bar{N}}(352) = 28+(N-41)+352 = N+339 \\
&(N \geq 352)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+305) &= B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+304))+B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+303))+B_{\bar{N}}(2N+305-B_{\bar{N}}(2N+302)) \\
&= B_{\bar{N}}(2N+305-(N+339))+B_{\bar{N}}(2N+305-(2N+276))+B_{\bar{N}}(2N+305-(N+345)) \\
&= B_{\bar{N}}(N-34)+B_{\bar{N}}(29)+B_{\bar{N}}(N-40) = (N-34)+29+(N-40) = 2N-45 \\
&(N \geq 315)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+306) &= B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+305))+B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+304))+B_{\bar{N}}(2N+306-B_{\bar{N}}(2N+303)) \\
&= B_{\bar{N}}(2N+306-(2N-45))+B_{\bar{N}}(2N+306-(N+339))+B_{\bar{N}}(2N+306-(2N+276)) \\
&= B_{\bar{N}}(351)+B_{\bar{N}}(N-33)+B_{\bar{N}}(30) = 351+(N-33)+30 = N+348 \\
&(N \geq 351)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+307) &= B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+306))+B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+305))+B_{\bar{N}}(2N+307-B_{\bar{N}}(2N+304)) \\
&= B_{\bar{N}}(2N+307-(N+348))+B_{\bar{N}}(2N+307-(2N-45))+B_{\bar{N}}(2N+307-(N+339)) \\
&= B_{\bar{N}}(N-41)+B_{\bar{N}}(352)+B_{\bar{N}}(N-32) = (N-41)+352+(N-32) = 2N+279 \\
&(N \geq 352)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+308) &= B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+307))+B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+306))+B_{\bar{N}}(2N+308-B_{\bar{N}}(2N+305)) \\
&= B_{\bar{N}}(2N+308-(2N+279))+B_{\bar{N}}(2N+308-(N+348))+B_{\bar{N}}(2N+308-(2N-45)) \\
&= B_{\bar{N}}(29)+B_{\bar{N}}(N-40)+B_{\bar{N}}(353) = 29+(N-40)+353 = N+342 \\
&(N \geq 353)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+309) &= B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+308))+B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+307))+B_{\bar{N}}(2N+309-B_{\bar{N}}(2N+306)) \\
&= B_{\bar{N}}(2N+309-(N+342))+B_{\bar{N}}(2N+309-(2N+279))+B_{\bar{N}}(2N+309-(N+348)) \\
&= B_{\bar{N}}(N-33)+B_{\bar{N}}(30)+B_{\bar{N}}(N-39) = (N-33)+30+(N-39) = 2N-42 \\
&(N \geq 316)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+310) &= B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+309))+B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+308))+B_{\bar{N}}(2N+310-B_{\bar{N}}(2N+307)) \\
&= B_{\bar{N}}(2N+310-(2N-42))+B_{\bar{N}}(2N+310-(N+342))+B_{\bar{N}}(2N+310-(2N+279)) \\
&= B_{\bar{N}}(352)+B_{\bar{N}}(N-32)+B_{\bar{N}}(31) = 352+(N-32)+31 = N+351 \\
&(N \geq 352)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+311) &= B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+310))+B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+309))+B_{\bar{N}}(2N+311-B_{\bar{N}}(2N+308)) \\
&= B_{\bar{N}}(2N+311-(N+351))+B_{\bar{N}}(2N+311-(2N-42))+B_{\bar{N}}(2N+311-(N+342)) \\
&= B_{\bar{N}}(N-40)+B_{\bar{N}}(353)+B_{\bar{N}}(N-31) = (N-40)+353+(N-31) = 2N+282 \\
&(N \geq 353)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+312) &= B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+311))+B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+310))+B_{\bar{N}}(2N+312-B_{\bar{N}}(2N+309)) \\
&= B_{\bar{N}}(2N+312-(2N+282))+B_{\bar{N}}(2N+312-(N+351))+B_{\bar{N}}(2N+312-(2N-42)) \\
&= B_{\bar{N}}(30)+B_{\bar{N}}(N-39)+B_{\bar{N}}(354) = 30+(N-39)+354 = N+345 \\
&(N \geq 354)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+313) &= B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+312))+B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+311))+B_{\bar{N}}(2N+313-B_{\bar{N}}(2N+310)) \\
&= B_{\bar{N}}(2N+313-(N+345))+B_{\bar{N}}(2N+313-(2N+282))+B_{\bar{N}}(2N+313-(N+351)) \\
&= B_{\bar{N}}(N-32)+B_{\bar{N}}(31)+B_{\bar{N}}(N-38) = (N-32)+31+(N-38) = 2N-39 \\
&(N \geq 317)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+314) &= B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+313))+B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+312))+B_{\bar{N}}(2N+314-B_{\bar{N}}(2N+311)) \\
&= B_{\bar{N}}(2N+314-(2N-39))+B_{\bar{N}}(2N+314-(N+345))+B_{\bar{N}}(2N+314-(2N+282)) \\
&= B_{\bar{N}}(353)+B_{\bar{N}}(N-31)+B_{\bar{N}}(32) = 353+(N-31)+32 = N+354 \\
&(N \geq 353)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+315) &= B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+314))+B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+313))+B_{\bar{N}}(2N+315-B_{\bar{N}}(2N+312)) \\
&= B_{\bar{N}}(2N+315-(N+354))+B_{\bar{N}}(2N+315-(2N-39))+B_{\bar{N}}(2N+315-(N+345)) \\
&= B_{\bar{N}}(N-39)+B_{\bar{N}}(354)+B_{\bar{N}}(N-30) = (N-39)+354+(N-30) = 2N+285 \\
&(N \geq 354)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+316) &= B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+315))+B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+314))+B_{\bar{N}}(2N+316-B_{\bar{N}}(2N+313)) \\
&= B_{\bar{N}}(2N+316-(2N+285))+B_{\bar{N}}(2N+316-(N+354))+B_{\bar{N}}(2N+316-(2N-39)) \\
&= B_{\bar{N}}(31)+B_{\bar{N}}(N-38)+B_{\bar{N}}(355) = 31+(N-38)+355 = N+348 \\
&(N \geq 355)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+317) &= B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+316))+B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+315))+B_{\bar{N}}(2N+317-B_{\bar{N}}(2N+314)) \\
&= B_{\bar{N}}(2N+317-(N+348))+B_{\bar{N}}(2N+317-(2N+285))+B_{\bar{N}}(2N+317-(N+354)) \\
&= B_{\bar{N}}(N-31)+B_{\bar{N}}(32)+B_{\bar{N}}(N-37) = (N-31)+32+(N-37) = 2N-36 \\
&(N \geq 318)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+318) &= B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+317))+B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+316))+B_{\bar{N}}(2N+318-B_{\bar{N}}(2N+315)) \\
&= B_{\bar{N}}(2N+318-(2N-36))+B_{\bar{N}}(2N+318-(N+348))+B_{\bar{N}}(2N+318-(2N+285)) \\
&= B_{\bar{N}}(354)+B_{\bar{N}}(N-30)+B_{\bar{N}}(33) = 354+(N-30)+33 = N+357 \\
&(N \geq 354)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+319) &= B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+318))+B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+317))+B_{\bar{N}}(2N+319-B_{\bar{N}}(2N+316)) \\
&= B_{\bar{N}}(2N+319-(N+357))+B_{\bar{N}}(2N+319-(2N-36))+B_{\bar{N}}(2N+319-(N+348)) \\
&= B_{\bar{N}}(N-38)+B_{\bar{N}}(355)+B_{\bar{N}}(N-29) = (N-38)+355+(N-29) = 2N+288 \\
&(N \geq 355)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+320) &= B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+319))+B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+318))+B_{\bar{N}}(2N+320-B_{\bar{N}}(2N+317)) \\
&= B_{\bar{N}}(2N+320-(2N+288))+B_{\bar{N}}(2N+320-(N+357))+B_{\bar{N}}(2N+320-(2N-36)) \\
&= B_{\bar{N}}(32)+B_{\bar{N}}(N-37)+B_{\bar{N}}(356) = 32+(N-37)+356 = N+351 \\
&(N \geq 356)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+321) &= B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+320))+B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+319))+B_{\bar{N}}(2N+321-B_{\bar{N}}(2N+318)) \\
&= B_{\bar{N}}(2N+321-(N+351))+B_{\bar{N}}(2N+321-(2N+288))+B_{\bar{N}}(2N+321-(N+357)) \\
&= B_{\bar{N}}(N-30)+B_{\bar{N}}(33)+B_{\bar{N}}(N-36) = (N-30)+33+(N-36) = 2N-33 \\
&(N \geq 319)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+322) &= B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+321))+B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+320))+B_{\bar{N}}(2N+322-B_{\bar{N}}(2N+319)) \\
&= B_{\bar{N}}(2N+322-(2N-33))+B_{\bar{N}}(2N+322-(N+351))+B_{\bar{N}}(2N+322-(2N+288)) \\
&= B_{\bar{N}}(355)+B_{\bar{N}}(N-29)+B_{\bar{N}}(34) = 355+(N-29)+34 = N+360 \\
&(N \geq 355)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+323) &= B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+322))+B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+321))+B_{\bar{N}}(2N+323-B_{\bar{N}}(2N+320)) \\
&= B_{\bar{N}}(2N+323-(N+360))+B_{\bar{N}}(2N+323-(2N-33))+B_{\bar{N}}(2N+323-(N+351)) \\
&= B_{\bar{N}}(N-37)+B_{\bar{N}}(356)+B_{\bar{N}}(N-28) = (N-37)+356+(N-28) = 2N+291 \\
&(N \geq 356)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+324) &= B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+323))+B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+322))+B_{\bar{N}}(2N+324-B_{\bar{N}}(2N+321)) \\
&= B_{\bar{N}}(2N+324-(2N+291))+B_{\bar{N}}(2N+324-(N+360))+B_{\bar{N}}(2N+324-(2N-33)) \\
&= B_{\bar{N}}(33)+B_{\bar{N}}(N-36)+B_{\bar{N}}(357) = 33+(N-36)+357 = N+354 \\
&(N \geq 357)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+325) &= B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+324))+B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+323))+B_{\bar{N}}(2N+325-B_{\bar{N}}(2N+322)) \\
&= B_{\bar{N}}(2N+325-(N+354))+B_{\bar{N}}(2N+325-(2N+291))+B_{\bar{N}}(2N+325-(N+360)) \\
&= B_{\bar{N}}(N-29)+B_{\bar{N}}(34)+B_{\bar{N}}(N-35) = (N-29)+34+(N-35) = 2N-30 \\
&(N \geq 320)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+326) &= B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+325))+B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+324))+B_{\bar{N}}(2N+326-B_{\bar{N}}(2N+323)) \\
&= B_{\bar{N}}(2N+326-(2N-30))+B_{\bar{N}}(2N+326-(N+354))+B_{\bar{N}}(2N+326-(2N+291)) \\
&= B_{\bar{N}}(356)+B_{\bar{N}}(N-28)+B_{\bar{N}}(35) = 356+(N-28)+35 = N+363 \\
&(N \geq 356)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+327) &= B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+326))+B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+325))+B_{\bar{N}}(2N+327-B_{\bar{N}}(2N+324)) \\
&= B_{\bar{N}}(2N+327-(N+363))+B_{\bar{N}}(2N+327-(2N-30))+B_{\bar{N}}(2N+327-(N+354)) \\
&= B_{\bar{N}}(N-36)+B_{\bar{N}}(357)+B_{\bar{N}}(N-27) = (N-36)+357+(N-27) = 2N+294 \\
&(N \geq 357)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+328) &= B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+327))+B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+326))+B_{\bar{N}}(2N+328-B_{\bar{N}}(2N+325)) \\
&= B_{\bar{N}}(2N+328-(2N+294))+B_{\bar{N}}(2N+328-(N+363))+B_{\bar{N}}(2N+328-(2N-30)) \\
&= B_{\bar{N}}(34)+B_{\bar{N}}(N-35)+B_{\bar{N}}(358) = 34+(N-35)+358 = N+357 \\
&(N \geq 358)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+329) &= B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+328))+B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+327))+B_{\bar{N}}(2N+329-B_{\bar{N}}(2N+326)) \\
&= B_{\bar{N}}(2N+329-(N+357))+B_{\bar{N}}(2N+329-(2N+294))+B_{\bar{N}}(2N+329-(N+363)) \\
&= B_{\bar{N}}(N-28)+B_{\bar{N}}(35)+B_{\bar{N}}(N-34) = (N-28)+35+(N-34) = 2N-27 \\
&(N \geq 321)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+330) &= B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+329))+B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+328))+B_{\bar{N}}(2N+330-B_{\bar{N}}(2N+327)) \\
&= B_{\bar{N}}(2N+330-(2N-27))+B_{\bar{N}}(2N+330-(N+357))+B_{\bar{N}}(2N+330-(2N+294)) \\
&= B_{\bar{N}}(357)+B_{\bar{N}}(N-27)+B_{\bar{N}}(36) = 357+(N-27)+36 = N+366 \\
&(N \geq 357)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+331) &= B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+330))+B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+329))+B_{\bar{N}}(2N+331-B_{\bar{N}}(2N+328)) \\
&= B_{\bar{N}}(2N+331-(N+366))+B_{\bar{N}}(2N+331-(2N-27))+B_{\bar{N}}(2N+331-(N+357)) \\
&= B_{\bar{N}}(N-35)+B_{\bar{N}}(358)+B_{\bar{N}}(N-26) = (N-35)+358+(N-26) = 2N+297 \\
&(N \geq 361)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+332) &= B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+331))+B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+330))+B_{\bar{N}}(2N+332-B_{\bar{N}}(2N+329)) \\
&= B_{\bar{N}}(2N+332-(2N+297))+B_{\bar{N}}(2N+332-(N+366))+B_{\bar{N}}(2N+332-(2N-27)) \\
&= B_{\bar{N}}(35)+B_{\bar{N}}(N-34)+B_{\bar{N}}(359) = 35+(N-34)+359 = N+360 \\
&(N \geq 362)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+333) &= B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+332))+B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+331))+B_{\bar{N}}(2N+333-B_{\bar{N}}(2N+330)) \\
&= B_{\bar{N}}(2N+333-(N+360))+B_{\bar{N}}(2N+333-(2N+297))+B_{\bar{N}}(2N+333-(N+366)) \\
&= B_{\bar{N}}(N-27)+B_{\bar{N}}(36)+B_{\bar{N}}(N-33) = (N-27)+36+(N-33) = 2N-24 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+334) &= B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+333))+B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+332))+B_{\bar{N}}(2N+334-B_{\bar{N}}(2N+331)) \\
&= B_{\bar{N}}(2N+334-(2N-24))+B_{\bar{N}}(2N+334-(N+360))+B_{\bar{N}}(2N+334-(2N+297)) \\
&= B_{\bar{N}}(358)+B_{\bar{N}}(N-26)+B_{\bar{N}}(37) = 358+(N-26)+37 = N+369 \\
&(N \geq 358)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+335) &= B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+334))+B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+333))+B_{\bar{N}}(2N+335-B_{\bar{N}}(2N+332)) \\
&= B_{\bar{N}}(2N+335-(N+369))+B_{\bar{N}}(2N+335-(2N-24))+B_{\bar{N}}(2N+335-(N+360)) \\
&= B_{\bar{N}}(N-34)+B_{\bar{N}}(359)+B_{\bar{N}}(N-25) = (N-34)+359+(N-25) = 2N+300 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+336) &= B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+335))+B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+334))+B_{\bar{N}}(2N+336-B_{\bar{N}}(2N+333)) \\
&= B_{\bar{N}}(2N+336-(2N+300))+B_{\bar{N}}(2N+336-(N+369))+B_{\bar{N}}(2N+336-(2N-24)) \\
&= B_{\bar{N}}(36)+B_{\bar{N}}(N-33)+B_{\bar{N}}(360) = 36+(N-33)+360 = N+363 \\
&(N \geq 364)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+337) &= B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+336))+B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+335))+B_{\bar{N}}(2N+337-B_{\bar{N}}(2N+334)) \\
&= B_{\bar{N}}(2N+337-(N+363))+B_{\bar{N}}(2N+337-(2N+300))+B_{\bar{N}}(2N+337-(N+369)) \\
&= B_{\bar{N}}(N-26)+B_{\bar{N}}(37)+B_{\bar{N}}(N-32) = (N-26)+37+(N-32) = 2N-21 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+338) &= B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+337))+B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+336))+B_{\bar{N}}(2N+338-B_{\bar{N}}(2N+335)) \\
&= B_{\bar{N}}(2N+338-(2N-21))+B_{\bar{N}}(2N+338-(N+363))+B_{\bar{N}}(2N+338-(2N+300)) \\
&= B_{\bar{N}}(359)+B_{\bar{N}}(N-25)+B_{\bar{N}}(38) = 359+(N-25)+38 = N+372 \\
&(N \geq 359)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+339) &= B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+338))+B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+337))+B_{\bar{N}}(2N+339-B_{\bar{N}}(2N+336)) \\
&= B_{\bar{N}}(2N+339-(N+372))+B_{\bar{N}}(2N+339-(2N-21))+B_{\bar{N}}(2N+339-(N+363)) \\
&= B_{\bar{N}}(N-33)+B_{\bar{N}}(360)+B_{\bar{N}}(N-24) = (N-33)+360+(N-24) = 2N+303 \\
&(N \geq 364)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+340) &= B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+339))+B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+338))+B_{\bar{N}}(2N+340-B_{\bar{N}}(2N+337)) \\
&= B_{\bar{N}}(2N+340-(2N+303))+B_{\bar{N}}(2N+340-(N+372))+B_{\bar{N}}(2N+340-(2N-21)) \\
&= B_{\bar{N}}(37)+B_{\bar{N}}(N-32)+B_{\bar{N}}(361) = 37+(N-32)+361 = N+366 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+341) &= B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+340))+B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+339))+B_{\bar{N}}(2N+341-B_{\bar{N}}(2N+338)) \\
&= B_{\bar{N}}(2N+341-(N+366))+B_{\bar{N}}(2N+341-(2N+303))+B_{\bar{N}}(2N+341-(N+372)) \\
&= B_{\bar{N}}(N-25)+B_{\bar{N}}(38)+B_{\bar{N}}(N-31) = (N-25)+38+(N-31) = 2N-18 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+342) &= B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+341))+B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+340))+B_{\bar{N}}(2N+342-B_{\bar{N}}(2N+339)) \\
&= B_{\bar{N}}(2N+342-(2N-18))+B_{\bar{N}}(2N+342-(N+366))+B_{\bar{N}}(2N+342-(2N+303)) \\
&= B_{\bar{N}}(360)+B_{\bar{N}}(N-24)+B_{\bar{N}}(39) = 360+(N-24)+39 = N+375 \\
&(N \geq 360)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+343) &= B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+342))+B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+341))+B_{\bar{N}}(2N+343-B_{\bar{N}}(2N+340)) \\
&= B_{\bar{N}}(2N+343-(N+375))+B_{\bar{N}}(2N+343-(2N-18))+B_{\bar{N}}(2N+343-(N+366)) \\
&= B_{\bar{N}}(N-32)+B_{\bar{N}}(361)+B_{\bar{N}}(N-23) = (N-32)+361+(N-23) = 2N+306 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+344) &= B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+343))+B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+342))+B_{\bar{N}}(2N+344-B_{\bar{N}}(2N+341)) \\
&= B_{\bar{N}}(2N+344-(2N+306))+B_{\bar{N}}(2N+344-(N+375))+B_{\bar{N}}(2N+344-(2N-18)) \\
&= B_{\bar{N}}(38)+B_{\bar{N}}(N-31)+B_{\bar{N}}(362) = 38+(N-31)+362 = N+369 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+345) &= B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+344))+B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+343))+B_{\bar{N}}(2N+345-B_{\bar{N}}(2N+342)) \\
&= B_{\bar{N}}(2N+345-(N+369))+B_{\bar{N}}(2N+345-(2N+306))+B_{\bar{N}}(2N+345-(N+375)) \\
&= B_{\bar{N}}(N-24)+B_{\bar{N}}(39)+B_{\bar{N}}(N-30) = (N-24)+39+(N-30) = 2N-15 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+346) &= B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+345))+B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+344))+B_{\bar{N}}(2N+346-B_{\bar{N}}(2N+343)) \\
&= B_{\bar{N}}(2N+346-(2N-15))+B_{\bar{N}}(2N+346-(N+369))+B_{\bar{N}}(2N+346-(2N+306)) \\
&= B_{\bar{N}}(361)+B_{\bar{N}}(N-23)+B_{\bar{N}}(40) = 361+(N-23)+40 = N+378 \\
&(N \geq 361)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+347) &= B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+346))+B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+345))+B_{\bar{N}}(2N+347-B_{\bar{N}}(2N+344)) \\
&= B_{\bar{N}}(2N+347-(N+378))+B_{\bar{N}}(2N+347-(2N-15))+B_{\bar{N}}(2N+347-(N+369)) \\
&= B_{\bar{N}}(N-31)+B_{\bar{N}}(362)+B_{\bar{N}}(N-22) = (N-31)+362+(N-22) = 2N+309 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+348) &= B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+347))+B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+346))+B_{\bar{N}}(2N+348-B_{\bar{N}}(2N+345)) \\
&= B_{\bar{N}}(2N+348-(2N+309))+B_{\bar{N}}(2N+348-(N+378))+B_{\bar{N}}(2N+348-(2N-15)) \\
&= B_{\bar{N}}(39)+B_{\bar{N}}(N-30)+B_{\bar{N}}(363) = 39+(N-30)+363 = N+372 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+349) &= B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+348))+B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+347))+B_{\bar{N}}(2N+349-B_{\bar{N}}(2N+346)) \\
&= B_{\bar{N}}(2N+349-(N+372))+B_{\bar{N}}(2N+349-(2N+309))+B_{\bar{N}}(2N+349-(N+378)) \\
&= B_{\bar{N}}(N-23)+B_{\bar{N}}(40)+B_{\bar{N}}(N-29) = (N-23)+40+(N-29) = 2N-12 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+350) &= B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+349))+B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+348))+B_{\bar{N}}(2N+350-B_{\bar{N}}(2N+347)) \\
&= B_{\bar{N}}(2N+350-(2N-12))+B_{\bar{N}}(2N+350-(N+372))+B_{\bar{N}}(2N+350-(2N+309)) \\
&= B_{\bar{N}}(362)+B_{\bar{N}}(N-22)+B_{\bar{N}}(41) = 362+(N-22)+41 = N+381 \\
&(N \geq 362)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+351) &= B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+350))+B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+349))+B_{\bar{N}}(2N+351-B_{\bar{N}}(2N+348)) \\
&= B_{\bar{N}}(2N+351-(N+381))+B_{\bar{N}}(2N+351-(2N-12))+B_{\bar{N}}(2N+351-(N+372)) \\
&= B_{\bar{N}}(N-30)+B_{\bar{N}}(363)+B_{\bar{N}}(N-21) = (N-30)+363+(N-21) = 2N+312 \\
&(N \geq 367)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+352) &= B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+351))+B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+350))+B_{\bar{N}}(2N+352-B_{\bar{N}}(2N+349)) \\
&= B_{\bar{N}}(2N+352-(2N+312))+B_{\bar{N}}(2N+352-(N+381))+B_{\bar{N}}(2N+352-(2N-12)) \\
&= B_{\bar{N}}(40)+B_{\bar{N}}(N-29)+B_{\bar{N}}(364) = 40+(N-29)+364 = N+375 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+353) &= B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+352))+B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+351))+B_{\bar{N}}(2N+353-B_{\bar{N}}(2N+350)) \\
&= B_{\bar{N}}(2N+353-(N+375))+B_{\bar{N}}(2N+353-(2N+312))+B_{\bar{N}}(2N+353-(N+381)) \\
&= B_{\bar{N}}(N-22)+B_{\bar{N}}(41)+B_{\bar{N}}(N-28) = (N-22)+41+(N-28) = 2N-9 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+354) &= B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+353))+B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+352))+B_{\bar{N}}(2N+354-B_{\bar{N}}(2N+351)) \\
&= B_{\bar{N}}(2N+354-(2N-9))+B_{\bar{N}}(2N+354-(N+375))+B_{\bar{N}}(2N+354-(2N+312)) \\
&= B_{\bar{N}}(363)+B_{\bar{N}}(N-21)+B_{\bar{N}}(42) = 363+(N-21)+42 = N+384 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+355) &= B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+354))+B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+353))+B_{\bar{N}}(2N+355-B_{\bar{N}}(2N+352)) \\
&= B_{\bar{N}}(2N+355-(N+384))+B_{\bar{N}}(2N+355-(2N-9))+B_{\bar{N}}(2N+355-(N+375)) \\
&= B_{\bar{N}}(N-29)+B_{\bar{N}}(364)+B_{\bar{N}}(N-20) = (N-29)+364+(N-20) = 2N+315 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+356) &= B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+355))+B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+354))+B_{\bar{N}}(2N+356-B_{\bar{N}}(2N+353)) \\
&= B_{\bar{N}}(2N+356-(2N+315))+B_{\bar{N}}(2N+356-(N+384))+B_{\bar{N}}(2N+356-(2N-9)) \\
&= B_{\bar{N}}(41)+B_{\bar{N}}(N-28)+B_{\bar{N}}(365) = 41+(N-28)+365 = N+378 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+357) &= B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+356))+B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+355))+B_{\bar{N}}(2N+357-B_{\bar{N}}(2N+354)) \\
&= B_{\bar{N}}(2N+357-(N+378))+B_{\bar{N}}(2N+357-(2N+315))+B_{\bar{N}}(2N+357-(N+384)) \\
&= B_{\bar{N}}(N-21)+B_{\bar{N}}(42)+B_{\bar{N}}(N-27) = (N-21)+42+(N-27) = 2N-6 \\
&(N \geq 370)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+358) &= B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+357))+B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+356))+B_{\bar{N}}(2N+358-B_{\bar{N}}(2N+355)) \\
&= B_{\bar{N}}(2N+358-(2N-6))+B_{\bar{N}}(2N+358-(N+378))+B_{\bar{N}}(2N+358-(2N+315)) \\
&= B_{\bar{N}}(364)+B_{\bar{N}}(N-20)+B_{\bar{N}}(43) = 364+(N-20)+43 = N+387 \\
&(N \geq 364)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+359) &= B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+358))+B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+357))+B_{\bar{N}}(2N+359-B_{\bar{N}}(2N+356)) \\
&= B_{\bar{N}}(2N+359-(N+387))+B_{\bar{N}}(2N+359-(2N-6))+B_{\bar{N}}(2N+359-(N+378)) \\
&= B_{\bar{N}}(N-28)+B_{\bar{N}}(365)+B_{\bar{N}}(N-19) = (N-28)+365+(N-19) = 2N+318 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+360) &= B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+359))+B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+358))+B_{\bar{N}}(2N+360-B_{\bar{N}}(2N+357)) \\
&= B_{\bar{N}}(2N+360-(2N+318))+B_{\bar{N}}(2N+360-(N+387))+B_{\bar{N}}(2N+360-(2N-6)) \\
&= B_{\bar{N}}(42)+B_{\bar{N}}(N-27)+B_{\bar{N}}(366) = 42+(N-27)+366 = N+381 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+361) &= B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+360))+B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+359))+B_{\bar{N}}(2N+361-B_{\bar{N}}(2N+358)) \\
&= B_{\bar{N}}(2N+361-(N+381))+B_{\bar{N}}(2N+361-(2N+318))+B_{\bar{N}}(2N+361-(N+387)) \\
&= B_{\bar{N}}(N-20)+B_{\bar{N}}(43)+B_{\bar{N}}(N-26) = (N-20)+43+(N-26) = 2N-3 \\
&(N \geq 43)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+362) &= B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+361))+B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+360))+B_{\bar{N}}(2N+362-B_{\bar{N}}(2N+359)) \\
&= B_{\bar{N}}(2N+362-(2N-3))+B_{\bar{N}}(2N+362-(N+381))+B_{\bar{N}}(2N+362-(2N+318)) \\
&= B_{\bar{N}}(365)+B_{\bar{N}}(N-19)+B_{\bar{N}}(44) = 365+(N-19)+44 = N+390 \\
&(N \geq 365)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+363) &= B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+362))+B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+361))+B_{\bar{N}}(2N+363-B_{\bar{N}}(2N+360)) \\
&= B_{\bar{N}}(2N+363-(N+390))+B_{\bar{N}}(2N+363-(2N-3))+B_{\bar{N}}(2N+363-(N+381)) \\
&= B_{\bar{N}}(N-27)+B_{\bar{N}}(366)+B_{\bar{N}}(N-18) = (N-27)+366+(N-18) = 2N+321 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+364) &= B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+363))+B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+362))+B_{\bar{N}}(2N+364-B_{\bar{N}}(2N+361)) \\
&= B_{\bar{N}}(2N+364-(2N+321))+B_{\bar{N}}(2N+364-(N+390))+B_{\bar{N}}(2N+364-(2N-3)) \\
&= B_{\bar{N}}(43)+B_{\bar{N}}(N-26)+B_{\bar{N}}(367) = 43+(N-26)+367 = N+384 \\
&(N \geq 377)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+365) &= B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+364))+B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+363))+B_{\bar{N}}(2N+365-B_{\bar{N}}(2N+362)) \\
&= B_{\bar{N}}(2N+365-(N+384))+B_{\bar{N}}(2N+365-(2N+321))+B_{\bar{N}}(2N+365-(N+390)) \\
&= B_{\bar{N}}(N-19)+B_{\bar{N}}(44)+B_{\bar{N}}(N-25) = (N-19)+44+(N-25) = 2N \\
&(N \geq 378)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+366) &= B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+365))+B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+364))+B_{\bar{N}}(2N+366-B_{\bar{N}}(2N+363)) \\
&= B_{\bar{N}}(2N+366-2N)+B_{\bar{N}}(2N+366-(N+384))+B_{\bar{N}}(2N+366-(2N+321)) \\
&= B_{\bar{N}}(366)+B_{\bar{N}}(N-18)+B_{\bar{N}}(45) = 366+(N-18)+45 = N+393 \\
&(N \geq 379)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+367) &= B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+366))+B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+365))+B_{\bar{N}}(2N+367-B_{\bar{N}}(2N+364)) \\
&= B_{\bar{N}}(2N+367-(N+393))+B_{\bar{N}}(2N+367-2N)+B_{\bar{N}}(2N+367-(N+384)) \\
&= B_{\bar{N}}(N-26)+B_{\bar{N}}(367)+B_{\bar{N}}(N-17) = (N-26)+367+(N-17) = 2N+324 \\
&(N \geq 368)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+368) &= B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+367))+B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+366))+B_{\bar{N}}(2N+368-B_{\bar{N}}(2N+365)) \\
&= B_{\bar{N}}(2N+368-(2N+324))+B_{\bar{N}}(2N+368-(N+393))+B_{\bar{N}}(2N+368-2N) \\
&= B_{\bar{N}}(44)+B_{\bar{N}}(N-25)+B_{\bar{N}}(368) = 44+(N-25)+368 = N+387 \\
&(N \geq 737)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+369) &= B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+368))+B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+367))+B_{\bar{N}}(2N+369-B_{\bar{N}}(2N+366)) \\
&= B_{\bar{N}}(2N+369-(N+387))+B_{\bar{N}}(2N+369-(2N+324))+B_{\bar{N}}(2N+369-(N+393)) \\
&= B_{\bar{N}}(N-18)+B_{\bar{N}}(45)+B_{\bar{N}}(N-24) = (N-18)+45+(N-24) = 2N+3 \\
&(N \geq 794)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+370) &= B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+369))+B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+368))+B_{\bar{N}}(2N+370-B_{\bar{N}}(2N+367)) \\
&= B_{\bar{N}}(2N+370-(2N+3))+B_{\bar{N}}(2N+370-(N+387))+B_{\bar{N}}(2N+370-(2N+324)) \\
&= B_{\bar{N}}(367)+B_{\bar{N}}(N-17)+B_{\bar{N}}(46) = 367+(N-17)+46 = N+396 \\
&(N \geq 793)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+371) &= B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+370))+B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+369))+B_{\bar{N}}(2N+371-B_{\bar{N}}(2N+368)) \\
&= B_{\bar{N}}(2N+371-(N+396))+B_{\bar{N}}(2N+371-(2N+3))+B_{\bar{N}}(2N+371-(N+387)) \\
&= B_{\bar{N}}(N-25)+B_{\bar{N}}(368)+B_{\bar{N}}(N-16) = (N-25)+368+(N-16) = 2N+327 \\
&(N \geq 792)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+372) &= B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+371))+B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+370))+B_{\bar{N}}(2N+372-B_{\bar{N}}(2N+369)) \\
&= B_{\bar{N}}(2N+372-(2N+327))+B_{\bar{N}}(2N+372-(N+396))+B_{\bar{N}}(2N+372-(2N+3)) \\
&= B_{\bar{N}}(45)+B_{\bar{N}}(N-24)+B_{\bar{N}}(369) = 45+(N-24)+369 = N+390 \\
&(N \geq 1065)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+373) &= B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+372))+B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+371))+B_{\bar{N}}(2N+373-B_{\bar{N}}(2N+370)) \\
&= B_{\bar{N}}(2N+373-(N+390))+B_{\bar{N}}(2N+373-(2N+327))+B_{\bar{N}}(2N+373-(N+396)) \\
&= B_{\bar{N}}(N-17)+B_{\bar{N}}(46)+B_{\bar{N}}(N-23) = (N-17)+46+(N-23) = 2N+6 \\
&(N \geq 1066)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+374) &= B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+373))+B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+372))+B_{\bar{N}}(2N+374-B_{\bar{N}}(2N+371)) \\
&= B_{\bar{N}}(2N+374-(2N+6))+B_{\bar{N}}(2N+374-(N+390))+B_{\bar{N}}(2N+374-(2N+327)) \\
&= B_{\bar{N}}(368)+B_{\bar{N}}(N-16)+B_{\bar{N}}(47) = 368+(N-16)+47 = N+399 \\
&(N \geq 1066)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+375) &= B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+374))+B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+373))+B_{\bar{N}}(2N+375-B_{\bar{N}}(2N+372)) \\
&= B_{\bar{N}}(2N+375-(N+399))+B_{\bar{N}}(2N+375-(2N+6))+B_{\bar{N}}(2N+375-(N+390)) \\
&= B_{\bar{N}}(N-24)+B_{\bar{N}}(369)+B_{\bar{N}}(N-15) = (N-24)+369+(N-15) = 2N+330 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+376) &= B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+375))+B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+374))+B_{\bar{N}}(2N+376-B_{\bar{N}}(2N+373)) \\
&= B_{\bar{N}}(2N+376-(2N+330))+B_{\bar{N}}(2N+376-(N+399))+B_{\bar{N}}(2N+376-(2N+6)) \\
&= B_{\bar{N}}(46)+B_{\bar{N}}(N-23)+B_{\bar{N}}(370) = 46+(N-23)+370 = N+393 \\
&(N \geq 370)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+377) &= B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+376))+B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+375))+B_{\bar{N}}(2N+377-B_{\bar{N}}(2N+374)) \\
&= B_{\bar{N}}(2N+377-(N+393))+B_{\bar{N}}(2N+377-(2N+330))+B_{\bar{N}}(2N+377-(N+399)) \\
&= B_{\bar{N}}(N-16)+B_{\bar{N}}(47)+B_{\bar{N}}(N-22) = (N-16)+47+(N-22) = 2N+9 \\
&(N \geq 70)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+378) &= B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+377))+B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+376))+B_{\bar{N}}(2N+378-B_{\bar{N}}(2N+375)) \\
&= B_{\bar{N}}(2N+378-(2N+9))+B_{\bar{N}}(2N+378-(N+393))+B_{\bar{N}}(2N+378-(2N+330)) \\
&= B_{\bar{N}}(369)+B_{\bar{N}}(N-15)+B_{\bar{N}}(48) = 369+(N-15)+48 = N+402 \\
&(N \geq 369)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+379) &= B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+378))+B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+377))+B_{\bar{N}}(2N+379-B_{\bar{N}}(2N+376)) \\
&= B_{\bar{N}}(2N+379-(N+402))+B_{\bar{N}}(2N+379-(2N+9))+B_{\bar{N}}(2N+379-(N+393)) \\
&= B_{\bar{N}}(N-23)+B_{\bar{N}}(370)+B_{\bar{N}}(N-14) = (N-23)+370+(N-14) = 2N+333 \\
&(N \geq 370)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+380) &= B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+379))+B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+378))+B_{\bar{N}}(2N+380-B_{\bar{N}}(2N+377)) \\
&= B_{\bar{N}}(2N+380-(2N+333))+B_{\bar{N}}(2N+380-(N+402))+B_{\bar{N}}(2N+380-(2N+9)) \\
&= B_{\bar{N}}(47)+B_{\bar{N}}(N-22)+B_{\bar{N}}(371) = 47+(N-22)+371 = N+396 \\
&(N \geq 371)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+381) &= B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+380))+B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+379))+B_{\bar{N}}(2N+381-B_{\bar{N}}(2N+378)) \\
&= B_{\bar{N}}(2N+381-(N+396))+B_{\bar{N}}(2N+381-(2N+333))+B_{\bar{N}}(2N+381-(N+402)) \\
&= B_{\bar{N}}(N-15)+B_{\bar{N}}(48)+B_{\bar{N}}(N-21) = (N-15)+48+(N-21) = 2N+12 \\
&(N \geq 48)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+382) &= B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+381))+B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+380))+B_{\bar{N}}(2N+382-B_{\bar{N}}(2N+379)) \\
&= B_{\bar{N}}(2N+382-(2N+12))+B_{\bar{N}}(2N+382-(N+396))+B_{\bar{N}}(2N+382-(2N+333)) \\
&= B_{\bar{N}}(370)+B_{\bar{N}}(N-14)+B_{\bar{N}}(49) = 370+(N-14)+49 = N+405 \\
&(N \geq 370)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+383) &= B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+382))+B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+381))+B_{\bar{N}}(2N+383-B_{\bar{N}}(2N+380)) \\
&= B_{\bar{N}}(2N+383-(N+405))+B_{\bar{N}}(2N+383-(2N+12))+B_{\bar{N}}(2N+383-(N+396)) \\
&= B_{\bar{N}}(N-22)+B_{\bar{N}}(371)+B_{\bar{N}}(N-13) = (N-22)+371+(N-13) = 2N+336 \\
&(N \geq 371)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+384) &= B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+383))+B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+382))+B_{\bar{N}}(2N+384-B_{\bar{N}}(2N+381)) \\
&= B_{\bar{N}}(2N+384-(2N+336))+B_{\bar{N}}(2N+384-(N+405))+B_{\bar{N}}(2N+384-(2N+12)) \\
&= B_{\bar{N}}(48)+B_{\bar{N}}(N-21)+B_{\bar{N}}(372) = 48+(N-21)+372 = N+399 \\
&(N \geq 372)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+385) &= B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+384))+B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+383))+B_{\bar{N}}(2N+385-B_{\bar{N}}(2N+382)) \\
&= B_{\bar{N}}(2N+385-(N+399))+B_{\bar{N}}(2N+385-(2N+336))+B_{\bar{N}}(2N+385-(N+405)) \\
&= B_{\bar{N}}(N-14)+B_{\bar{N}}(49)+B_{\bar{N}}(N-20) = (N-14)+49+(N-20) = 2N+15 \\
&(N \geq 49)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+386) &= B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+385))+B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+384))+B_{\bar{N}}(2N+386-B_{\bar{N}}(2N+383)) \\
&= B_{\bar{N}}(2N+386-(2N+15))+B_{\bar{N}}(2N+386-(N+399))+B_{\bar{N}}(2N+386-(2N+336)) \\
&= B_{\bar{N}}(371)+B_{\bar{N}}(N-13)+B_{\bar{N}}(50) = 371+(N-13)+50 = N+408 \\
&(N \geq 371)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+387) &= B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+386))+B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+385))+B_{\bar{N}}(2N+387-B_{\bar{N}}(2N+384)) \\
&= B_{\bar{N}}(2N+387-(N+408))+B_{\bar{N}}(2N+387-(2N+15))+B_{\bar{N}}(2N+387-(N+399)) \\
&= B_{\bar{N}}(N-21)+B_{\bar{N}}(372)+B_{\bar{N}}(N-12) = (N-21)+372+(N-12) = 2N+339 \\
&(N \geq 372)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+388) &= B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+387))+B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+386))+B_{\bar{N}}(2N+388-B_{\bar{N}}(2N+385)) \\
&= B_{\bar{N}}(2N+388-(2N+339))+B_{\bar{N}}(2N+388-(N+408))+B_{\bar{N}}(2N+388-(2N+15)) \\
&= B_{\bar{N}}(49)+B_{\bar{N}}(N-20)+B_{\bar{N}}(373) = 49+(N-20)+373 = N+402 \\
&(N \geq 373)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+389) &= B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+388))+B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+387))+B_{\bar{N}}(2N+389-B_{\bar{N}}(2N+386)) \\
&= B_{\bar{N}}(2N+389-(N+402))+B_{\bar{N}}(2N+389-(2N+339))+B_{\bar{N}}(2N+389-(N+408)) \\
&= B_{\bar{N}}(N-13)+B_{\bar{N}}(50)+B_{\bar{N}}(N-19) = (N-13)+50+(N-19) = 2N+18 \\
&(N \geq 50)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+390) &= B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+389))+B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+388))+B_{\bar{N}}(2N+390-B_{\bar{N}}(2N+387)) \\
&= B_{\bar{N}}(2N+390-(2N+18))+B_{\bar{N}}(2N+390-(N+402))+B_{\bar{N}}(2N+390-(2N+339)) \\
&= B_{\bar{N}}(372)+B_{\bar{N}}(N-12)+B_{\bar{N}}(51) = 372+(N-12)+51 = N+411 \\
&(N \geq 372)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+391) &= B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+390))+B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+389))+B_{\bar{N}}(2N+391-B_{\bar{N}}(2N+388)) \\
&= B_{\bar{N}}(2N+391-(N+411))+B_{\bar{N}}(2N+391-(2N+18))+B_{\bar{N}}(2N+391-(N+402)) \\
&= B_{\bar{N}}(N-20)+B_{\bar{N}}(373)+B_{\bar{N}}(N-11) = (N-20)+373+(N-11) = 2N+342 \\
&(N \geq 383)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+392) &= B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+391))+B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+390))+B_{\bar{N}}(2N+392-B_{\bar{N}}(2N+389)) \\
&= B_{\bar{N}}(2N+392-(2N+342))+B_{\bar{N}}(2N+392-(N+411))+B_{\bar{N}}(2N+392-(2N+18)) \\
&= B_{\bar{N}}(50)+B_{\bar{N}}(N-19)+B_{\bar{N}}(374) = 50+(N-19)+374 = N+405 \\
&(N \geq 384)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+393) &= B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+392))+B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+391))+B_{\bar{N}}(2N+393-B_{\bar{N}}(2N+390)) \\
&= B_{\bar{N}}(2N+393-(N+405))+B_{\bar{N}}(2N+393-(2N+342))+B_{\bar{N}}(2N+393-(N+411)) \\
&= B_{\bar{N}}(N-12)+B_{\bar{N}}(51)+B_{\bar{N}}(N-18) = (N-12)+51+(N-18) = 2N+21 \\
&(N \geq 385)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+394) &= B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+393))+B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+392))+B_{\bar{N}}(2N+394-B_{\bar{N}}(2N+391)) \\
&= B_{\bar{N}}(2N+394-(2N+21))+B_{\bar{N}}(2N+394-(N+405))+B_{\bar{N}}(2N+394-(2N+342)) \\
&= B_{\bar{N}}(373)+B_{\bar{N}}(N-11)+B_{\bar{N}}(52) = 373+(N-11)+52 = N+414 \\
&(N \geq 373)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+395) &= B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+394))+B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+393))+B_{\bar{N}}(2N+395-B_{\bar{N}}(2N+392)) \\
&= B_{\bar{N}}(2N+395-(N+414))+B_{\bar{N}}(2N+395-(2N+21))+B_{\bar{N}}(2N+395-(N+405)) \\
&= B_{\bar{N}}(N-19)+B_{\bar{N}}(374)+B_{\bar{N}}(N-10) = (N-19)+374+(N-10) = 2N+345 \\
&(N \geq 743)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+396) &= B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+395))+B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+394))+B_{\bar{N}}(2N+396-B_{\bar{N}}(2N+393)) \\
&= B_{\bar{N}}(2N+396-(2N+345))+B_{\bar{N}}(2N+396-(N+414))+B_{\bar{N}}(2N+396-(2N+21)) \\
&= B_{\bar{N}}(51)+B_{\bar{N}}(N-18)+B_{\bar{N}}(375) = 51+(N-18)+375 = N+408 \\
&(N \geq 773)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+397) &= B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+396))+B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+395))+B_{\bar{N}}(2N+397-B_{\bar{N}}(2N+394)) \\
&= B_{\bar{N}}(2N+397-(N+408))+B_{\bar{N}}(2N+397-(2N+345))+B_{\bar{N}}(2N+397-(N+414)) \\
&= B_{\bar{N}}(N-11)+B_{\bar{N}}(52)+B_{\bar{N}}(N-17) = (N-11)+52+(N-17) = 2N+24 \\
&(N \geq 772)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+398) &= B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+397))+B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+396))+B_{\bar{N}}(2N+398-B_{\bar{N}}(2N+395)) \\
&= B_{\bar{N}}(2N+398-(2N+24))+B_{\bar{N}}(2N+398-(N+408))+B_{\bar{N}}(2N+398-(2N+345)) \\
&= B_{\bar{N}}(374)+B_{\bar{N}}(N-10)+B_{\bar{N}}(53) = 374+(N-10)+53 = N+417 \\
&(N \geq 771)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+399) &= B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+398))+B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+397))+B_{\bar{N}}(2N+399-B_{\bar{N}}(2N+396)) \\
&= B_{\bar{N}}(2N+399-(N+417))+B_{\bar{N}}(2N+399-(2N+24))+B_{\bar{N}}(2N+399-(N+408)) \\
&= B_{\bar{N}}(N-18)+B_{\bar{N}}(375)+B_{\bar{N}}(N-9) = (N-18)+375+(N-9) = 2N+348 \\
&(N \geq 1067)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+400) &= B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+399))+B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+398))+B_{\bar{N}}(2N+400-B_{\bar{N}}(2N+397)) \\
&= B_{\bar{N}}(2N+400-(2N+348))+B_{\bar{N}}(2N+400-(N+417))+B_{\bar{N}}(2N+400-(2N+24)) \\
&= B_{\bar{N}}(52)+B_{\bar{N}}(N-17)+B_{\bar{N}}(376) = 52+(N-17)+376 = N+411 \\
&(N \geq 1068)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+401) &= B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+400))+B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+399))+B_{\bar{N}}(2N+401-B_{\bar{N}}(2N+398)) \\
&= B_{\bar{N}}(2N+401-(N+411))+B_{\bar{N}}(2N+401-(2N+348))+B_{\bar{N}}(2N+401-(N+417)) \\
&= B_{\bar{N}}(N-10)+B_{\bar{N}}(53)+B_{\bar{N}}(N-16) = (N-10)+53+(N-16) = 2N+27 \\
&(N \geq 1069)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+402) &= B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+401))+B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+400))+B_{\bar{N}}(2N+402-B_{\bar{N}}(2N+399)) \\
&= B_{\bar{N}}(2N+402-(2N+27))+B_{\bar{N}}(2N+402-(N+411))+B_{\bar{N}}(2N+402-(2N+348)) \\
&= B_{\bar{N}}(375)+B_{\bar{N}}(N-9)+B_{\bar{N}}(54) = 375+(N-9)+54 = N+420 \\
&(N \geq 375)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+403) &= B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+402))+B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+401))+B_{\bar{N}}(2N+403-B_{\bar{N}}(2N+400)) \\
&= B_{\bar{N}}(2N+403-(N+420))+B_{\bar{N}}(2N+403-(2N+27))+B_{\bar{N}}(2N+403-(N+411)) \\
&= B_{\bar{N}}(N-17)+B_{\bar{N}}(376)+B_{\bar{N}}(N-8) = (N-17)+376+(N-8) = 2N+351 \\
&(N \geq 1186)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+404) &= B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+403))+B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+402))+B_{\bar{N}}(2N+404-B_{\bar{N}}(2N+401)) \\
&= B_{\bar{N}}(2N+404-(2N+351))+B_{\bar{N}}(2N+404-(N+420))+B_{\bar{N}}(2N+404-(2N+27)) \\
&= B_{\bar{N}}(53)+B_{\bar{N}}(N-16)+B_{\bar{N}}(377) = 53+(N-16)+377 = N+414 \\
&(N \geq 1185)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+405) &= B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+404))+B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+403))+B_{\bar{N}}(2N+405-B_{\bar{N}}(2N+402)) \\
&= B_{\bar{N}}(2N+405-(N+414))+B_{\bar{N}}(2N+405-(2N+351))+B_{\bar{N}}(2N+405-(N+420)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(54)+B_{\bar{N}}(N-15) = (N-9)+54+(N-15) = 2N+30 \\
&(N \geq 1184)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+406) &= B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+405))+B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+404))+B_{\bar{N}}(2N+406-B_{\bar{N}}(2N+403)) \\
&= B_{\bar{N}}(2N+406-(2N+30))+B_{\bar{N}}(2N+406-(N+414))+B_{\bar{N}}(2N+406-(2N+351)) \\
&= B_{\bar{N}}(376)+B_{\bar{N}}(N-8)+B_{\bar{N}}(55) = 376+(N-8)+55 = N+423 \\
&(N \geq 511)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+407) &= B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+406))+B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+405))+B_{\bar{N}}(2N+407-B_{\bar{N}}(2N+404)) \\
&= B_{\bar{N}}(2N+407-(N+423))+B_{\bar{N}}(2N+407-(2N+30))+B_{\bar{N}}(2N+407-(N+414)) \\
&= B_{\bar{N}}(N-16)+B_{\bar{N}}(377)+B_{\bar{N}}(N-7) = (N-16)+377+(N-7) = 2N+354 \\
&(N \geq 512)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+408) &= B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+407))+B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+406))+B_{\bar{N}}(2N+408-B_{\bar{N}}(2N+405)) \\
&= B_{\bar{N}}(2N+408-(2N+354))+B_{\bar{N}}(2N+408-(N+423))+B_{\bar{N}}(2N+408-(2N+30)) \\
&= B_{\bar{N}}(54)+B_{\bar{N}}(N-15)+B_{\bar{N}}(378) = 54+(N-15)+378 = N+417 \\
&(N \geq 513)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+409) &= B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+408))+B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+407))+B_{\bar{N}}(2N+409-B_{\bar{N}}(2N+406)) \\
&= B_{\bar{N}}(2N+409-(N+417))+B_{\bar{N}}(2N+409-(2N+354))+B_{\bar{N}}(2N+409-(N+423)) \\
&= B_{\bar{N}}(N-8)+B_{\bar{N}}(55)+B_{\bar{N}}(N-14) = (N-8)+55+(N-14) = 2N+33 \\
&(N \geq 55)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+410) &= B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+409))+B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+408))+B_{\bar{N}}(2N+410-B_{\bar{N}}(2N+407)) \\
&= B_{\bar{N}}(2N+410-(2N+33))+B_{\bar{N}}(2N+410-(N+417))+B_{\bar{N}}(2N+410-(2N+354)) \\
&= B_{\bar{N}}(377)+B_{\bar{N}}(N-7)+B_{\bar{N}}(56) = 377+(N-7)+56 = N+426 \\
&(N \geq 377)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+411) &= B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+410))+B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+409))+B_{\bar{N}}(2N+411-B_{\bar{N}}(2N+408)) \\
&= B_{\bar{N}}(2N+411-(N+426))+B_{\bar{N}}(2N+411-(2N+33))+B_{\bar{N}}(2N+411-(N+417)) \\
&= B_{\bar{N}}(N-15)+B_{\bar{N}}(378)+B_{\bar{N}}(N-6) = (N-15)+378+(N-6) = 2N+357 \\
&(N \geq 378)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+412) &= B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+411))+B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+410))+B_{\bar{N}}(2N+412-B_{\bar{N}}(2N+409)) \\
&= B_{\bar{N}}(2N+412-(2N+357))+B_{\bar{N}}(2N+412-(N+426))+B_{\bar{N}}(2N+412-(2N+33)) \\
&= B_{\bar{N}}(55)+B_{\bar{N}}(N-14)+B_{\bar{N}}(379) = 55+(N-14)+379 = N+420 \\
&(N \geq 379)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+413) &= B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+412))+B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+411))+B_{\bar{N}}(2N+413-B_{\bar{N}}(2N+410)) \\
&= B_{\bar{N}}(2N+413-(N+420))+B_{\bar{N}}(2N+413-(2N+357))+B_{\bar{N}}(2N+413-(N+426)) \\
&= B_{\bar{N}}(N-7)+B_{\bar{N}}(56)+B_{\bar{N}}(N-13)=(N-7)+56+(N-13)=2N+36 \\
&(N \geq 56)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+414) &= B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+413))+B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+412))+B_{\bar{N}}(2N+414-B_{\bar{N}}(2N+411)) \\
&= B_{\bar{N}}(2N+414-(2N+36))+B_{\bar{N}}(2N+414-(N+420))+B_{\bar{N}}(2N+414-(2N+357)) \\
&= B_{\bar{N}}(378)+B_{\bar{N}}(N-6)+B_{\bar{N}}(57)=378+(N-6)+57=N+429 \\
&(N \geq 378)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+415) &= B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+414))+B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+413))+B_{\bar{N}}(2N+415-B_{\bar{N}}(2N+412)) \\
&= B_{\bar{N}}(2N+415-(N+429))+B_{\bar{N}}(2N+415-(2N+36))+B_{\bar{N}}(2N+415-(N+420)) \\
&= B_{\bar{N}}(N-14)+B_{\bar{N}}(379)+B_{\bar{N}}(N-5)=(N-14)+379+(N-5)=2N+360 \\
&(N \geq 379)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+416) &= B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+415))+B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+414))+B_{\bar{N}}(2N+416-B_{\bar{N}}(2N+413)) \\
&= B_{\bar{N}}(2N+416-(2N+360))+B_{\bar{N}}(2N+416-(N+429))+B_{\bar{N}}(2N+416-(2N+36)) \\
&= B_{\bar{N}}(56)+B_{\bar{N}}(N-13)+B_{\bar{N}}(380)=56+(N-13)+380=N+423 \\
&(N \geq 380)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+417) &= B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+416))+B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+415))+B_{\bar{N}}(2N+417-B_{\bar{N}}(2N+414)) \\
&= B_{\bar{N}}(2N+417-(N+423))+B_{\bar{N}}(2N+417-(2N+360))+B_{\bar{N}}(2N+417-(N+429)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(57)+B_{\bar{N}}(N-12)=(N-6)+57+(N-12)=2N+39 \\
&(N \geq 366)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+418) &= B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+417))+B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+416))+B_{\bar{N}}(2N+418-B_{\bar{N}}(2N+415)) \\
&= B_{\bar{N}}(2N+418-(2N+39))+B_{\bar{N}}(2N+418-(N+423))+B_{\bar{N}}(2N+418-(2N+360)) \\
&= B_{\bar{N}}(379)+B_{\bar{N}}(N-5)+B_{\bar{N}}(58) = 379+(N-5)+58 = N+432 \\
&(N \geq 379)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+419) &= B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+418))+B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+417))+B_{\bar{N}}(2N+419-B_{\bar{N}}(2N+416)) \\
&= B_{\bar{N}}(2N+419-(N+432))+B_{\bar{N}}(2N+419-(2N+39))+B_{\bar{N}}(2N+419-(N+423)) \\
&= B_{\bar{N}}(N-13)+B_{\bar{N}}(380)+B_{\bar{N}}(N-4) = (N-13)+380+(N-4) = 2N+363 \\
&(N \geq 380)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+420) &= B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+419))+B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+418))+B_{\bar{N}}(2N+420-B_{\bar{N}}(2N+417)) \\
&= B_{\bar{N}}(2N+420-(2N+363))+B_{\bar{N}}(2N+420-(N+432))+B_{\bar{N}}(2N+420-(2N+39)) \\
&= B_{\bar{N}}(57)+B_{\bar{N}}(N-12)+B_{\bar{N}}(381) = 57+(N-12)+381 = N+426 \\
&(N \geq 381)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+421) &= B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+420))+B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+419))+B_{\bar{N}}(2N+421-B_{\bar{N}}(2N+418)) \\
&= B_{\bar{N}}(2N+421-(N+426))+B_{\bar{N}}(2N+421-(2N+363))+B_{\bar{N}}(2N+421-(N+432)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(58)+B_{\bar{N}}(N-11) = (N-5)+58+(N-11) = 2N+42 \\
&(N \geq 361)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+422) &= B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+421))+B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+420))+B_{\bar{N}}(2N+422-B_{\bar{N}}(2N+419)) \\
&= B_{\bar{N}}(2N+422-(2N+42))+B_{\bar{N}}(2N+422-(N+426))+B_{\bar{N}}(2N+422-(2N+363)) \\
&= B_{\bar{N}}(380)+B_{\bar{N}}(N-4)+B_{\bar{N}}(59) = 380+(N-4)+59 = N+435 \\
&(N \geq 380)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+423) &= B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+422))+B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+421))+B_{\bar{N}}(2N+423-B_{\bar{N}}(2N+420)) \\
&= B_{\bar{N}}(2N+423-(N+435))+B_{\bar{N}}(2N+423-(2N+42))+B_{\bar{N}}(2N+423-(N+426)) \\
&= B_{\bar{N}}(N-12)+B_{\bar{N}}(381)+B_{\bar{N}}(N-3) = (N-12)+381+(N-3) = 2N+366 \\
&(N \geq 381)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+424) &= B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+423))+B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+422))+B_{\bar{N}}(2N+424-B_{\bar{N}}(2N+421)) \\
&= B_{\bar{N}}(2N+424-(2N+366))+B_{\bar{N}}(2N+424-(N+435))+B_{\bar{N}}(2N+424-(2N+42)) \\
&= B_{\bar{N}}(58)+B_{\bar{N}}(N-11)+B_{\bar{N}}(382) = 58+(N-11)+382 = N+429 \\
&(N \geq 382)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+425) &= B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+424))+B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+423))+B_{\bar{N}}(2N+425-B_{\bar{N}}(2N+422)) \\
&= B_{\bar{N}}(2N+425-(N+429))+B_{\bar{N}}(2N+425-(2N+366))+B_{\bar{N}}(2N+425-(N+435)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(59)+B_{\bar{N}}(N-10) = (N-4)+59+(N-10) = 2N+45 \\
&(N \geq 106)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+426) &= B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+425))+B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+424))+B_{\bar{N}}(2N+426-B_{\bar{N}}(2N+423)) \\
&= B_{\bar{N}}(2N+426-(2N+45))+B_{\bar{N}}(2N+426-(N+429))+B_{\bar{N}}(2N+426-(2N+366)) \\
&= B_{\bar{N}}(381)+B_{\bar{N}}(N-3)+B_{\bar{N}}(60) = 381+(N-3)+60 = N+438 \\
&(N \geq 381)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+427) &= B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+426))+B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+425))+B_{\bar{N}}(2N+427-B_{\bar{N}}(2N+424)) \\
&= B_{\bar{N}}(2N+427-(N+438))+B_{\bar{N}}(2N+427-(2N+45))+B_{\bar{N}}(2N+427-(N+429)) \\
&= B_{\bar{N}}(N-11)+B_{\bar{N}}(382)+B_{\bar{N}}(N-2) = (N-11)+382+(N-2) = 2N+369 \\
&(N \geq 382)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+428) &= B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+427))+B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+426))+B_{\bar{N}}(2N+428-B_{\bar{N}}(2N+425)) \\
&= B_{\bar{N}}(2N+428-(2N+369))+B_{\bar{N}}(2N+428-(N+438))+B_{\bar{N}}(2N+428-(2N+45)) \\
&= B_{\bar{N}}(59)+B_{\bar{N}}(N-10)+B_{\bar{N}}(383) = 59+(N-10)+383 = N+432 \\
&(N \geq 383)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+429) &= B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+428))+B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+427))+B_{\bar{N}}(2N+429-B_{\bar{N}}(2N+426)) \\
&= B_{\bar{N}}(2N+429-(N+432))+B_{\bar{N}}(2N+429-(2N+369))+B_{\bar{N}}(2N+429-(N+438)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(60)+B_{\bar{N}}(N-9) = (N-3)+60+(N-9) = 2N+48 \\
&(N \geq 60)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+430) &= B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+429))+B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+428))+B_{\bar{N}}(2N+430-B_{\bar{N}}(2N+427)) \\
&= B_{\bar{N}}(2N+430-(2N+48))+B_{\bar{N}}(2N+430-(N+432))+B_{\bar{N}}(2N+430-(2N+369)) \\
&= B_{\bar{N}}(382)+B_{\bar{N}}(N-2)+B_{\bar{N}}(61) = 382+(N-2)+61 = N+441 \\
&(N \geq 382)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+431) &= B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+430))+B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+429))+B_{\bar{N}}(2N+431-B_{\bar{N}}(2N+428)) \\
&= B_{\bar{N}}(2N+431-(N+441))+B_{\bar{N}}(2N+431-(2N+48))+B_{\bar{N}}(2N+431-(N+432)) \\
&= B_{\bar{N}}(N-10)+B_{\bar{N}}(383)+B_{\bar{N}}(N-1) = (N-10)+383+(N-1) = 2N+372 \\
&(N \geq 383)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+432) &= B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+431))+B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+430))+B_{\bar{N}}(2N+432-B_{\bar{N}}(2N+429)) \\
&= B_{\bar{N}}(2N+432-(2N+372))+B_{\bar{N}}(2N+432-(N+441))+B_{\bar{N}}(2N+432-(2N+48)) \\
&= B_{\bar{N}}(60)+B_{\bar{N}}(N-9)+B_{\bar{N}}(384) = 60+(N-9)+384 = N+435 \\
&(N \geq 384)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+433) &= B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+432))+B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+431))+B_{\bar{N}}(2N+433-B_{\bar{N}}(2N+430)) \\
&= B_{\bar{N}}(2N+433-(N+435))+B_{\bar{N}}(2N+433-(2N+372))+B_{\bar{N}}(2N+433-(N+441)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(61)+B_{\bar{N}}(N-8)=(N-2)+61+(N-8)=2N+51 \\
&(N \geq 259)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+434) &= B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+433))+B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+432))+B_{\bar{N}}(2N+434-B_{\bar{N}}(2N+431)) \\
&= B_{\bar{N}}(2N+434-(2N+51))+B_{\bar{N}}(2N+434-(N+435))+B_{\bar{N}}(2N+434-(2N+372)) \\
&= B_{\bar{N}}(383)+B_{\bar{N}}(N-1)+B_{\bar{N}}(62)=383+(N-1)+62=N+444 \\
&(N \geq 383)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+435) &= B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+434))+B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+433))+B_{\bar{N}}(2N+435-B_{\bar{N}}(2N+432)) \\
&= B_{\bar{N}}(2N+435-(N+444))+B_{\bar{N}}(2N+435-(2N+51))+B_{\bar{N}}(2N+435-(N+435)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(384)+B_{\bar{N}}(N)=(N-9)+384+N=2N+375 \\
&(N \geq 384)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+436) &= B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+435))+B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+434))+B_{\bar{N}}(2N+436-B_{\bar{N}}(2N+433)) \\
&= B_{\bar{N}}(2N+436-(2N+375))+B_{\bar{N}}(2N+436-(N+444))+B_{\bar{N}}(2N+436-(2N+51)) \\
&= B_{\bar{N}}(61)+B_{\bar{N}}(N-8)+B_{\bar{N}}(385)=61+(N-8)+385=N+438 \\
&(N \geq 385)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+437) &= B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+436))+B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+435))+B_{\bar{N}}(2N+437-B_{\bar{N}}(2N+434)) \\
&= B_{\bar{N}}(2N+437-(N+438))+B_{\bar{N}}(2N+437-(2N+375))+B_{\bar{N}}(2N+437-(N+444)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(62)+B_{\bar{N}}(N-7)=(N-1)+62+(N-7)=2N+54 \\
&(N \geq 310)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+438) &= B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+437))+B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+436))+B_{\bar{N}}(2N+438-B_{\bar{N}}(2N+435)) \\
&= B_{\bar{N}}(2N+438-(2N+54))+B_{\bar{N}}(2N+438-(N+438))+B_{\bar{N}}(2N+438-(2N+375)) \\
&= B_{\bar{N}}(384)+B_{\bar{N}}(N)+B_{\bar{N}}(63) = 384+N+63 = N+447 \\
&(N \geq 384)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+439) &= B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+438))+B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+437))+B_{\bar{N}}(2N+439-B_{\bar{N}}(2N+436)) \\
&= B_{\bar{N}}(2N+439-(N+447))+B_{\bar{N}}(2N+439-(2N+54))+B_{\bar{N}}(2N+439-(N+438)) \\
&= B_{\bar{N}}(N-8)+B_{\bar{N}}(385)+B_{\bar{N}}(N+1) = (N-8)+385+6 = N+383 \\
&(N \geq 385)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+440) &= B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+439))+B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+438))+B_{\bar{N}}(2N+440-B_{\bar{N}}(2N+437)) \\
&= B_{\bar{N}}(2N+440-(N+383))+B_{\bar{N}}(2N+440-(N+447))+B_{\bar{N}}(2N+440-(2N+54)) \\
&= B_{\bar{N}}(N+57)+B_{\bar{N}}(N-7)+B_{\bar{N}}(386) = (N+49)+(N-7)+386 = 2N+428 \\
&(N \geq 386)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+441) &= B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+440))+B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+439))+B_{\bar{N}}(2N+441-B_{\bar{N}}(2N+438)) \\
&= B_{\bar{N}}(2N+441-(2N+428))+B_{\bar{N}}(2N+441-(N+383))+B_{\bar{N}}(2N+441-(N+447)) \\
&= B_{\bar{N}}(13)+B_{\bar{N}}(N+58)+B_{\bar{N}}(N-6) = 13+(N+60)+(N-6) = 2N+67 \\
&(N \geq 13)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+442) &= B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+441))+B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+440))+B_{\bar{N}}(2N+442-B_{\bar{N}}(2N+439)) \\
&= B_{\bar{N}}(2N+442-(2N+67))+B_{\bar{N}}(2N+442-(2N+428))+B_{\bar{N}}(2N+442-(N+383)) \\
&= B_{\bar{N}}(375)+B_{\bar{N}}(14)+B_{\bar{N}}(N+59) = 375+14+25 = 414 \\
&(N \geq 375)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+443) &= B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+442))+B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+441))+B_{\bar{N}}(2N+443-B_{\bar{N}}(2N+440)) \\
&= B_{\bar{N}}(2N+443-414)+B_{\bar{N}}(2N+443-(2N+67))+B_{\bar{N}}(2N+443-(2N+428)) \\
&= B_{\bar{N}}(2N+29)+B_{\bar{N}}(376)+B_{\bar{N}}(15)=(2N+27)+376+15=2N+418 \\
&(N \geq 398)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+444) &= B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+443))+B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+442))+B_{\bar{N}}(2N+444-B_{\bar{N}}(2N+441)) \\
&= B_{\bar{N}}(2N+444-(2N+418))+B_{\bar{N}}(2N+444-414)+B_{\bar{N}}(2N+444-(2N+67)) \\
&= B_{\bar{N}}(26)+B_{\bar{N}}(2N+30)+B_{\bar{N}}(377)=26+(2N+10)+377=2N+413 \\
&(N \geq 399)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+445) &= B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+444))+B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+443))+B_{\bar{N}}(2N+445-B_{\bar{N}}(2N+442)) \\
&= B_{\bar{N}}(2N+445-(2N+413))+B_{\bar{N}}(2N+445-(2N+418))+B_{\bar{N}}(2N+445-414) \\
&= B_{\bar{N}}(32)+B_{\bar{N}}(27)+B_{\bar{N}}(2N+31)=32+27+(2N+24)=2N+83 \\
&(N \geq 400)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+446) &= B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+445))+B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+444))+B_{\bar{N}}(2N+446-B_{\bar{N}}(2N+443)) \\
&= B_{\bar{N}}(2N+446-(2N+83))+B_{\bar{N}}(2N+446-(2N+413))+B_{\bar{N}}(2N+446-(2N+418)) \\
&= B_{\bar{N}}(363)+B_{\bar{N}}(33)+B_{\bar{N}}(28)=363+33+28=424 \\
&(N \geq 363)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+447) &= B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+446))+B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+445))+B_{\bar{N}}(2N+447-B_{\bar{N}}(2N+444)) \\
&= B_{\bar{N}}(2N+447-424)+B_{\bar{N}}(2N+447-(2N+83))+B_{\bar{N}}(2N+447-(2N+413)) \\
&= B_{\bar{N}}(2N+23)+B_{\bar{N}}(364)+B_{\bar{N}}(34)=(N+14)+364+34=N+412 \\
&(N \geq 414)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+448) &= B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+447))+B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+446))+B_{\bar{N}}(2N+448-B_{\bar{N}}(2N+445)) \\
&= B_{\bar{N}}(2N+448-(N+412))+B_{\bar{N}}(2N+448-424)+B_{\bar{N}}(2N+448-(2N+83)) \\
&= B_{\bar{N}}(N+36)+B_{\bar{N}}(2N+24)+B_{\bar{N}}(365) = 36+(N+28)+365 = N+429 \\
&(N \geq 415)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+449) &= B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+448))+B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+447))+B_{\bar{N}}(2N+449-B_{\bar{N}}(2N+446)) \\
&= B_{\bar{N}}(2N+449-(N+429))+B_{\bar{N}}(2N+449-(N+412))+B_{\bar{N}}(2N+449-424) \\
&= B_{\bar{N}}(N+20)+B_{\bar{N}}(N+37)+B_{\bar{N}}(2N+25) = (N+15)+(N+37)+(3N+6) = 5N+58 \\
&(N \geq 416)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+450) &= B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+449))+B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+448))+B_{\bar{N}}(2N+450-B_{\bar{N}}(2N+447)) \\
&= B_{\bar{N}}(2N+450-(5N+58))+B_{\bar{N}}(2N+450-(N+429))+B_{\bar{N}}(2N+450-(N+412)) \\
&= B_{\bar{N}}(-3N+392)+B_{\bar{N}}(N+21)+B_{\bar{N}}(N+38) = 0+(N+16)+(2N+10) = 3N+26 \\
&(N \geq 131)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+451) &= B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+450))+B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+449))+B_{\bar{N}}(2N+451-B_{\bar{N}}(2N+448)) \\
&= B_{\bar{N}}(2N+451-(3N+26))+B_{\bar{N}}(2N+451-(5N+58))+B_{\bar{N}}(2N+451-(N+429)) \\
&= B_{\bar{N}}(-N+425)+B_{\bar{N}}(-3N+393)+B_{\bar{N}}(N+22) = 0+0+22 = 22 \\
&(N \geq 425)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+452) &= B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+451))+B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+450))+B_{\bar{N}}(2N+452-B_{\bar{N}}(2N+449)) \\
&= B_{\bar{N}}(2N+452-22)+B_{\bar{N}}(2N+452-(3N+26))+B_{\bar{N}}(2N+452-(5N+58)) \\
&= B_{\bar{N}}(2N+430)+B_{\bar{N}}(-N+426)+B_{\bar{N}}(-3N+394) = (N+441)+0+0 = N+441 \\
&(N \geq 426)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+453) &= B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+452))+B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+451))+B_{\bar{N}}(2N+453-B_{\bar{N}}(2N+450)) \\
&= B_{\bar{N}}(2N+453-(N+441))+B_{\bar{N}}(2N+453-22)+B_{\bar{N}}(2N+453-(3N+26)) \\
&= B_{\bar{N}}(N+12)+B_{\bar{N}}(2N+431)+B_{\bar{N}}(-N+427) = (N+9)+(2N+372)+0 = 3N+381 \\
&(N \geq 427)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+454) &= B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+453))+B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+452))+B_{\bar{N}}(2N+454-B_{\bar{N}}(2N+451)) \\
&= B_{\bar{N}}(2N+454-(3N+381))+B_{\bar{N}}(2N+454-(N+441))+B_{\bar{N}}(2N+454-22) \\
&= B_{\bar{N}}(-N+73)+B_{\bar{N}}(N+13)+B_{\bar{N}}(2N+432) = 0+15+(N+435) = N+450 \\
&(N \geq 382)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+455) &= B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+454))+B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+453))+B_{\bar{N}}(2N+455-B_{\bar{N}}(2N+452)) \\
&= B_{\bar{N}}(2N+455-(N+450))+B_{\bar{N}}(2N+455-(3N+381))+B_{\bar{N}}(2N+455-(N+441)) \\
&= B_{\bar{N}}(N+5)+B_{\bar{N}}(-N+74)+B_{\bar{N}}(N+14) = 9+0+(N+10) = N+19 \\
&(N \geq 856)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+456) &= B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+455))+B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+454))+B_{\bar{N}}(2N+456-B_{\bar{N}}(2N+453)) \\
&= B_{\bar{N}}(2N+456-(N+19))+B_{\bar{N}}(2N+456-(N+450))+B_{\bar{N}}(2N+456-(3N+381)) \\
&= B_{\bar{N}}(N+437)+B_{\bar{N}}(N+6)+B_{\bar{N}}(-N+75) = 7+(N+4)+0 = N+11 \\
&(N \geq 863)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+457) &= B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+456))+B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+455))+B_{\bar{N}}(2N+457-B_{\bar{N}}(2N+454)) \\
&= B_{\bar{N}}(2N+457-(N+11))+B_{\bar{N}}(2N+457-(N+19))+B_{\bar{N}}(2N+457-(N+450)) \\
&= B_{\bar{N}}(N+446)+B_{\bar{N}}(N+438)+B_{\bar{N}}(N+7) = (2N+56)+(2N+169)+(N+5) = 5N+230 \\
&(N \geq 870)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+458) &= B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+457))+B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+456))+B_{\bar{N}}(2N+458-B_{\bar{N}}(2N+455)) \\
&= B_{\bar{N}}(2N+458-(5N+230))+B_{\bar{N}}(2N+458-(N+11))+B_{\bar{N}}(2N+458-(N+19)) \\
&= B_{\bar{N}}(-3N+228)+B_{\bar{N}}(N+447)+B_{\bar{N}}(N+439)=0+(N-2)+(2N+55)=3N+53 \\
&(N \geq 247)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+459) &= B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+458))+B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+457))+B_{\bar{N}}(2N+459-B_{\bar{N}}(2N+456)) \\
&= B_{\bar{N}}(2N+459-(3N+53))+B_{\bar{N}}(2N+459-(5N+230))+B_{\bar{N}}(2N+459-(N+11)) \\
&= B_{\bar{N}}(-N+406)+B_{\bar{N}}(-3N+229)+B_{\bar{N}}(N+448)=0+0+450=450 \\
&(N \geq 406)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+460) &= B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+459))+B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+458))+B_{\bar{N}}(2N+460-B_{\bar{N}}(2N+457)) \\
&= B_{\bar{N}}(2N+460-450)+B_{\bar{N}}(2N+460-(3N+53))+B_{\bar{N}}(2N+460-(5N+230)) \\
&= B_{\bar{N}}(2N+10)+B_{\bar{N}}(-N+407)+B_{\bar{N}}(-3N+230)=\left(\frac{15N}{7}-\frac{59}{7}\right)+0+0=\frac{15N}{7}-\frac{59}{7} \\
&(N \geq 600)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+461) &= B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+460))+B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+459))+B_{\bar{N}}(2N+461-B_{\bar{N}}(2N+458)) \\
&= B_{\bar{N}}\left(2N+461-\left(\frac{15N}{7}-\frac{59}{7}\right)\right)+B_{\bar{N}}(2N+461-450)+B_{\bar{N}}(2N+461-(3N+53)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3286}{7}\right)+B_{\bar{N}}(2N+11)+B_{\bar{N}}(-N+408)=0+(N-2)+0=N-2 \\
&(N \geq 3286)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+462) &= B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+461))+B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+460))+B_{\bar{N}}(2N+462-B_{\bar{N}}(2N+459)) \\
&= B_{\bar{N}}(2N+462-(N-2))+B_{\bar{N}}\left(2N+462-\left(\frac{15N}{7}-\frac{59}{7}\right)\right)+B_{\bar{N}}(2N+462-450) \\
&= B_{\bar{N}}(N+464)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3293}{7}\right)+B_{\bar{N}}(2N+12)=(N+466)+0+(N+10)=2N+476 \\
&(N \geq 3293)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+463) &= B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+462))+B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+461))+B_{\bar{N}}(2N+463-B_{\bar{N}}(2N+460)) \\
&= B_{\bar{N}}(2N+463-(2N+476))+B_{\bar{N}}(2N+463-(N-2))+B_{\bar{N}}\left(2N+463-\left(\frac{15N}{7}-\frac{59}{7}\right)\right) \\
&= B_{\bar{N}}(-13)+B_{\bar{N}}(N+465)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3300}{7}\right)=0+7+0=7 \\
&(N \geq 3300)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+464) &= B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+463))+B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+462))+B_{\bar{N}}(2N+464-B_{\bar{N}}(2N+461)) \\
&= B_{\bar{N}}(2N+464-7)+B_{\bar{N}}(2N+464-(2N+476))+B_{\bar{N}}(2N+464-(N-2)) \\
&= B_{\bar{N}}(2N+457)+B_{\bar{N}}(-12)+B_{\bar{N}}(N+466)=(5N+230)+0+(2N+177)=7N+407 \\
&(N \geq 603)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+465) &= B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+464))+B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+463))+B_{\bar{N}}(2N+465-B_{\bar{N}}(2N+462)) \\
&= B_{\bar{N}}(2N+465-(7N+407))+B_{\bar{N}}(2N+465-7)+B_{\bar{N}}(2N+465-(2N+476)) \\
&= B_{\bar{N}}(-5N+58)+B_{\bar{N}}(2N+458)+B_{\bar{N}}(-11)=0+(3N+53)+0=3N+53 \\
&(N \geq 2095)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+466) &= B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+465))+B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+464))+B_{\bar{N}}(2N+466-B_{\bar{N}}(2N+463)) \\
&= B_{\bar{N}}(2N+466-(3N+53))+B_{\bar{N}}(2N+466-(7N+407))+B_{\bar{N}}(2N+466-7) \\
&= B_{\bar{N}}(-N+413)+B_{\bar{N}}(-5N+59)+B_{\bar{N}}(2N+459)=0+0+450=450 \\
&(N \geq 2102)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+467) &= B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+466))+B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+465))+B_{\bar{N}}(2N+467-B_{\bar{N}}(2N+464)) \\
&= B_{\bar{N}}(2N+467-450)+B_{\bar{N}}(2N+467-(3N+53))+B_{\bar{N}}(2N+467-(7N+407)) \\
&= B_{\bar{N}}(2N+17)+B_{\bar{N}}(-N+414)+B_{\bar{N}}(-5N+60)=(2N+16)+0+0=2N+16 \\
&(N \geq 2109)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+468) &= B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+467))+B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+466))+B_{\bar{N}}(2N+468-B_{\bar{N}}(2N+465)) \\
&= B_{\bar{N}}(2N+468-(2N+16))+B_{\bar{N}}(2N+468-450)+B_{\bar{N}}(2N+468-(3N+53)) \\
&= B_{\bar{N}}(452)+B_{\bar{N}}(2N+18)+B_{\bar{N}}(-N+415)=452+29+0=481 \\
&(N \geq 541)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+469) &= B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+468))+B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+467))+B_{\bar{N}}(2N+469-B_{\bar{N}}(2N+466)) \\
&= B_{\bar{N}}(2N+469-481)+B_{\bar{N}}(2N+469-(2N+16))+B_{\bar{N}}(2N+469-450) \\
&= B_{\bar{N}}(2N-12)+B_{\bar{N}}(453)+B_{\bar{N}}(2N+19)=\left(\frac{15N}{7}-\frac{66}{7}\right)+453+(N+8)=\frac{22N}{7}+\frac{3161}{7} \\
&(N \geq 540)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+470) &= B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+469))+B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+468))+B_{\bar{N}}(2N+470-B_{\bar{N}}(2N+467)) \\
&= B_{\bar{N}}\left(2N+470-\left(\frac{22N}{7}+\frac{3161}{7}\right)\right)+B_{\bar{N}}(2N+470-481)+B_{\bar{N}}(2N+470-(2N+16)) \\
&= B_{\bar{N}}\left(-\frac{8N}{7}+\frac{129}{7}\right)+B_{\bar{N}}(2N-11)+B_{\bar{N}}(454)=0+(N-2)+454=N+452 \\
&(N \geq 539)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+471) &= B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+470))+B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+469))+B_{\bar{N}}(2N+471-B_{\bar{N}}(2N+468)) \\
&= B_{\bar{N}}(2N+471-(N+452))+B_{\bar{N}}\left(2N+471-\left(\frac{22N}{7}+\frac{3161}{7}\right)\right)+B_{\bar{N}}(2N+471-481) \\
&= B_{\bar{N}}(N+19)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{136}{7}\right)+B_{\bar{N}}(2N-10) = (N+13)+0+(N-8) = 2N+5 \\
&(N \geq 77)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+472) &= B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+471))+B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+470))+B_{\bar{N}}(2N+472-B_{\bar{N}}(2N+469)) \\
&= B_{\bar{N}}(2N+472-(2N+5))+B_{\bar{N}}(2N+472-(N+452))+B_{\bar{N}}\left(2N+472-\left(\frac{22N}{7}+\frac{3161}{7}\right)\right) \\
&= B_{\bar{N}}(467)+B_{\bar{N}}(N+20)+B_{\bar{N}}\left(-\frac{8N}{7}+\frac{143}{7}\right) = 467+(N+15)+0 = N+482 \\
&(N \geq 467)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+473) &= B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+472))+B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+471))+B_{\bar{N}}(2N+473-B_{\bar{N}}(2N+470)) \\
&= B_{\bar{N}}(2N+473-(N+482))+B_{\bar{N}}(2N+473-(2N+5))+B_{\bar{N}}(2N+473-(N+452)) \\
&= B_{\bar{N}}(N-9)+B_{\bar{N}}(468)+B_{\bar{N}}(N+21) = (N-9)+468+(N+16) = 2N+475 \\
&(N \geq 468)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+474) &= B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+473))+B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+472))+B_{\bar{N}}(2N+474-B_{\bar{N}}(2N+471)) \\
&= B_{\bar{N}}(2N+474-(2N+475))+B_{\bar{N}}(2N+474-(N+482))+B_{\bar{N}}(2N+474-(2N+5)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N-8)+B_{\bar{N}}(469) = 0+(N-8)+469 = N+461 \\
&(N \geq 469)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+475) &= B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+474))+B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+473))+B_{\bar{N}}(2N+475-B_{\bar{N}}(2N+472)) \\
&= B_{\bar{N}}(2N+475-(N+461))+B_{\bar{N}}(2N+475-(2N+475))+B_{\bar{N}}(2N+475-(N+482)) \\
&= B_{\bar{N}}(N+14)+B_{\bar{N}}(0)+B_{\bar{N}}(N-7) = (N+10)+0+(N-7) = 2N+3 \\
&(N \geq 122)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+476) &= B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+475))+B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+474))+B_{\bar{N}}(2N+476-B_{\bar{N}}(2N+473)) \\
&= B_{\bar{N}}(2N+476-(2N+3))+B_{\bar{N}}(2N+476-(N+461))+B_{\bar{N}}(2N+476-(2N+475)) \\
&= B_{\bar{N}}(473)+B_{\bar{N}}(N+15)+B_{\bar{N}}(1) = 473+(N+11)+1 = N+485 \\
&(N \geq 473)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+477) &= B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+476))+B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+475))+B_{\bar{N}}(2N+477-B_{\bar{N}}(2N+474)) \\
&= B_{\bar{N}}(2N+477-(N+485))+B_{\bar{N}}(2N+477-(2N+3))+B_{\bar{N}}(2N+477-(N+461)) \\
&= B_{\bar{N}}(N-8)+B_{\bar{N}}(474)+B_{\bar{N}}(N+16) = (N-8)+474+17 = N+483 \\
&(N \geq 474)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+478) &= B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+477))+B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+476))+B_{\bar{N}}(2N+478-B_{\bar{N}}(2N+475)) \\
&= B_{\bar{N}}(2N+478-(N+483))+B_{\bar{N}}(2N+478-(N+485))+B_{\bar{N}}(2N+478-(2N+3)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(N-7)+B_{\bar{N}}(475) = (N-5)+(N-7)+475 = 2N+463 \\
&(N \geq 475)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+479) &= B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+478))+B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+477))+B_{\bar{N}}(2N+479-B_{\bar{N}}(2N+476)) \\
&= B_{\bar{N}}(2N+479-(2N+463))+B_{\bar{N}}(2N+479-(N+483))+B_{\bar{N}}(2N+479-(N+485)) \\
&= B_{\bar{N}}(16)+B_{\bar{N}}(N-4)+B_{\bar{N}}(N-6) = 16+(N-4)+(N-6) = 2N+6 \\
&(N \geq 16)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+480) &= B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+479))+B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+478))+B_{\bar{N}}(2N+480-B_{\bar{N}}(2N+477)) \\
&= B_{\bar{N}}(2N+480-(2N+6))+B_{\bar{N}}(2N+480-(2N+463))+B_{\bar{N}}(2N+480-(N+483)) \\
&= B_{\bar{N}}(474)+B_{\bar{N}}(17)+B_{\bar{N}}(N-3) = 474+17+(N-3) = N+488 \\
&(N \geq 474)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+481) &= B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+480))+B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+479))+B_{\bar{N}}(2N+481-B_{\bar{N}}(2N+478)) \\
&= B_{\bar{N}}(2N+481-(N+488))+B_{\bar{N}}(2N+481-(2N+6))+B_{\bar{N}}(2N+481-(2N+463)) \\
&= B_{\bar{N}}(N-7)+B_{\bar{N}}(475)+B_{\bar{N}}(18) = (N-7)+475+18 = N+486 \\
&(N \geq 475)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+482) &= B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+481))+B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+480))+B_{\bar{N}}(2N+482-B_{\bar{N}}(2N+479)) \\
&= B_{\bar{N}}(2N+482-(N+486))+B_{\bar{N}}(2N+482-(N+488))+B_{\bar{N}}(2N+482-(2N+6)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(N-6)+B_{\bar{N}}(476) = (N-4)+(N-6)+476 = 2N+466 \\
&(N \geq 476)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+483) &= B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+482))+B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+481))+B_{\bar{N}}(2N+483-B_{\bar{N}}(2N+480)) \\
&= B_{\bar{N}}(2N+483-(2N+466))+B_{\bar{N}}(2N+483-(N+486))+B_{\bar{N}}(2N+483-(N+488)) \\
&= B_{\bar{N}}(17)+B_{\bar{N}}(N-3)+B_{\bar{N}}(N-5) = 17+(N-3)+(N-5) = 2N+9 \\
&(N \geq 104)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+484) &= B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+483))+B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+482))+B_{\bar{N}}(2N+484-B_{\bar{N}}(2N+481)) \\
&= B_{\bar{N}}(2N+484-(2N+9))+B_{\bar{N}}(2N+484-(2N+466))+B_{\bar{N}}(2N+484-(N+486)) \\
&= B_{\bar{N}}(475)+B_{\bar{N}}(18)+B_{\bar{N}}(N-2) = 475+18+(N-2) = N+491 \\
&(N \geq 475)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+485) &= B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+484))+B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+483))+B_{\bar{N}}(2N+485-B_{\bar{N}}(2N+482)) \\
&= B_{\bar{N}}(2N+485-(N+491))+B_{\bar{N}}(2N+485-(2N+9))+B_{\bar{N}}(2N+485-(2N+466)) \\
&= B_{\bar{N}}(N-6)+B_{\bar{N}}(476)+B_{\bar{N}}(19)=(N-6)+476+19=N+489 \\
&(N \geq 476)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+486) &= B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+485))+B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+484))+B_{\bar{N}}(2N+486-B_{\bar{N}}(2N+483)) \\
&= B_{\bar{N}}(2N+486-(N+489))+B_{\bar{N}}(2N+486-(N+491))+B_{\bar{N}}(2N+486-(2N+9)) \\
&= B_{\bar{N}}(N-3)+B_{\bar{N}}(N-5)+B_{\bar{N}}(477)=(N-3)+(N-5)+477=2N+469 \\
&(N \geq 477)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+487) &= B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+486))+B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+485))+B_{\bar{N}}(2N+487-B_{\bar{N}}(2N+484)) \\
&= B_{\bar{N}}(2N+487-(2N+469))+B_{\bar{N}}(2N+487-(N+489))+B_{\bar{N}}(2N+487-(N+491)) \\
&= B_{\bar{N}}(18)+B_{\bar{N}}(N-2)+B_{\bar{N}}(N-4)=18+(N-2)+(N-4)=2N+12 \\
&(N \geq 476)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+488) &= B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+487))+B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+486))+B_{\bar{N}}(2N+488-B_{\bar{N}}(2N+485)) \\
&= B_{\bar{N}}(2N+488-(2N+12))+B_{\bar{N}}(2N+488-(2N+469))+B_{\bar{N}}(2N+488-(N+489)) \\
&= B_{\bar{N}}(476)+B_{\bar{N}}(19)+B_{\bar{N}}(N-1)=476+19+(N-1)=N+494 \\
&(N \geq 503)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+489) &= B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+488))+B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+487))+B_{\bar{N}}(2N+489-B_{\bar{N}}(2N+486)) \\
&= B_{\bar{N}}(2N+489-(N+494))+B_{\bar{N}}(2N+489-(2N+12))+B_{\bar{N}}(2N+489-(2N+469)) \\
&= B_{\bar{N}}(N-5)+B_{\bar{N}}(477)+B_{\bar{N}}(20)=(N-5)+477+20=N+492 \\
&(N \geq 506)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+490) &= B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+489))+B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+488))+B_{\bar{N}}(2N+490-B_{\bar{N}}(2N+487)) \\
&= B_{\bar{N}}(2N+490-(N+492))+B_{\bar{N}}(2N+490-(N+494))+B_{\bar{N}}(2N+490-(2N+12)) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N-4)+B_{\bar{N}}(478)=(N-2)+(N-4)+478=2N+472 \\
&(N \geq 510)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+491) &= B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+490))+B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+489))+B_{\bar{N}}(2N+491-B_{\bar{N}}(2N+488)) \\
&= B_{\bar{N}}(2N+491-(2N+472))+B_{\bar{N}}(2N+491-(N+492))+B_{\bar{N}}(2N+491-(N+494)) \\
&= B_{\bar{N}}(19)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N-3)=19+(N-1)+(N-3)=2N+15 \\
&(N \geq 477)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+492) &= B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+491))+B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+490))+B_{\bar{N}}(2N+492-B_{\bar{N}}(2N+489)) \\
&= B_{\bar{N}}(2N+492-(2N+15))+B_{\bar{N}}(2N+492-(2N+472))+B_{\bar{N}}(2N+492-(N+492)) \\
&= B_{\bar{N}}(477)+B_{\bar{N}}(20)+B_{\bar{N}}(N)=477+20+N=N+497 \\
&(N \geq 478)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+493) &= B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+492))+B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+491))+B_{\bar{N}}(2N+493-B_{\bar{N}}(2N+490)) \\
&= B_{\bar{N}}(2N+493-(N+497))+B_{\bar{N}}(2N+493-(2N+15))+B_{\bar{N}}(2N+493-(2N+472)) \\
&= B_{\bar{N}}(N-4)+B_{\bar{N}}(478)+B_{\bar{N}}(21)=(N-4)+478+21=N+495 \\
&(N \geq 479)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+494) &= B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+493))+B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+492))+B_{\bar{N}}(2N+494-B_{\bar{N}}(2N+491)) \\
&= B_{\bar{N}}(2N+494-(N+495))+B_{\bar{N}}(2N+494-(N+497))+B_{\bar{N}}(2N+494-(2N+15)) \\
&= B_{\bar{N}}(N-1)+B_{\bar{N}}(N-3)+B_{\bar{N}}(479)=(N-1)+(N-3)+479=2N+475 \\
&(N \geq 479)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+495) &= B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+494))+B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+493))+B_{\bar{N}}(2N+495-B_{\bar{N}}(2N+492)) \\
&= B_{\bar{N}}(2N+495-(2N+475))+B_{\bar{N}}(2N+495-(N+495))+B_{\bar{N}}(2N+495-(N+497)) \\
&= B_{\bar{N}}(20)+B_{\bar{N}}(N)+B_{\bar{N}}(N-2) = 20+N+(N-2) = 2N+18 \\
&(N \geq 484)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+496) &= B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+495))+B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+494))+B_{\bar{N}}(2N+496-B_{\bar{N}}(2N+493)) \\
&= B_{\bar{N}}(2N+496-(2N+18))+B_{\bar{N}}(2N+496-(2N+475))+B_{\bar{N}}(2N+496-(N+495)) \\
&= B_{\bar{N}}(478)+B_{\bar{N}}(21)+B_{\bar{N}}(N+1) = 478+21+6 = 505 \\
&(N \geq 496)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+497) &= B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+496))+B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+495))+B_{\bar{N}}(2N+497-B_{\bar{N}}(2N+494)) \\
&= B_{\bar{N}}(2N+497-505)+B_{\bar{N}}(2N+497-(2N+18))+B_{\bar{N}}(2N+497-(2N+475)) \\
&= B_{\bar{N}}(2N-8)+B_{\bar{N}}(479)+B_{\bar{N}}(22) = (2N-6)+479+22 = 2N+495 \\
&(N \geq 497)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+498) &= B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+497))+B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+496))+B_{\bar{N}}(2N+498-B_{\bar{N}}(2N+495)) \\
&= B_{\bar{N}}(2N+498-(2N+495))+B_{\bar{N}}(2N+498-505)+B_{\bar{N}}(2N+498-(2N+18)) \\
&= B_{\bar{N}}(3)+B_{\bar{N}}(2N-7)+B_{\bar{N}}(480) = 3+7+480 = 490 \\
&(N \geq 498)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+499) &= B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+498))+B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+497))+B_{\bar{N}}(2N+499-B_{\bar{N}}(2N+496)) \\
&= B_{\bar{N}}(2N+499-490)+B_{\bar{N}}(2N+499-(2N+495))+B_{\bar{N}}(2N+499-505) \\
&= B_{\bar{N}}(2N+9)+B_{\bar{N}}(4)+B_{\bar{N}}(2N-6) = \left(\frac{32N}{7}+\frac{590}{7}\right)+4+\left(\frac{16N}{7}+\frac{295}{7}\right) = \frac{48N}{7}+\frac{913}{7} \\
&(N \geq 73)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+500) &= B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+499))+B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+498))+B_{\bar{N}}(2N+500-B_{\bar{N}}(2N+497)) \\
&= B_{\bar{N}}\left(2N+500-\left(\frac{48N}{7}+\frac{913}{7}\right)\right)+B_{\bar{N}}(2N+500-490)+B_{\bar{N}}(2N+500-(2N+495)) \\
&= B_{\bar{N}}\left(-\frac{34N}{7}+\frac{2587}{7}\right)+B_{\bar{N}}(2N+10)+B_{\bar{N}}(5)=0+\left(\frac{15N}{7}-\frac{59}{7}\right)+5=\frac{15N}{7}-\frac{24}{7} \\
&(N\geq 77)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+501) &= B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+500))+B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+499))+B_{\bar{N}}(2N+501-B_{\bar{N}}(2N+498)) \\
&= B_{\bar{N}}\left(2N+501-\left(\frac{15N}{7}-\frac{24}{7}\right)\right)+B_{\bar{N}}\left(2N+501-\left(\frac{48N}{7}+\frac{913}{7}\right)\right)+B_{\bar{N}}(2N+501-490) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3531}{7}\right)+B_{\bar{N}}\left(-\frac{34N}{7}+\frac{2594}{7}\right)+B_{\bar{N}}(2N+11)=0+0+(N-2)=N-2 \\
&(N\geq 3531)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+502) &= B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+501))+B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+500))+B_{\bar{N}}(2N+502-B_{\bar{N}}(2N+499)) \\
&= B_{\bar{N}}(2N+502-(N-2))+B_{\bar{N}}\left(2N+502-\left(\frac{15N}{7}-\frac{24}{7}\right)\right)+B_{\bar{N}}\left(2N+502-\left(\frac{48N}{7}+\frac{913}{7}\right)\right) \\
&= B_{\bar{N}}(N+504)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3538}{7}\right)+B_{\bar{N}}\left(-\frac{34N}{7}+\frac{2601}{7}\right)=506+0+0=506 \\
&(N\geq 3538)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+503) &= B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+502))+B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+501))+B_{\bar{N}}(2N+503-B_{\bar{N}}(2N+500)) \\
&= B_{\bar{N}}(2N+503-506)+B_{\bar{N}}(2N+503-(N-2))+B_{\bar{N}}\left(2N+503-\left(\frac{15N}{7}-\frac{24}{7}\right)\right) \\
&= B_{\bar{N}}(2N-3)+B_{\bar{N}}(N+505)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3545}{7}\right)=(N-1)+(N+506)+0=2N+505 \\
&(N\geq 3545)*
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+504) &= B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+503))+B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+502))+B_{\bar{N}}(2N+504-B_{\bar{N}}(2N+501)) \\
&= B_{\bar{N}}(2N+504-(2N+505))+B_{\bar{N}}(2N+504-506)+B_{\bar{N}}(2N+504-(N-2)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(2N-2)+B_{\bar{N}}(N+506) = 0+(2N-1)+(N+508) = 3N+507 \\
&(N \geq 427)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+505) &= B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+504))+B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+503))+B_{\bar{N}}(2N+505-B_{\bar{N}}(2N+502)) \\
&= B_{\bar{N}}(2N+505-(3N+507))+B_{\bar{N}}(2N+505-(2N+505))+B_{\bar{N}}(2N+505-506) \\
&= B_{\bar{N}}(-N-2)+B_{\bar{N}}(0)+B_{\bar{N}}(2N-1) = 0+0+(N+6) = N+6 \\
&(N \geq 428)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+506) &= B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+505))+B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+504))+B_{\bar{N}}(2N+506-B_{\bar{N}}(2N+503)) \\
&= B_{\bar{N}}(2N+506-(N+6))+B_{\bar{N}}(2N+506-(3N+507))+B_{\bar{N}}(2N+506-(2N+505)) \\
&= B_{\bar{N}}(N+500)+B_{\bar{N}}(-N-1)+B_{\bar{N}}(1) = 7+0+1 = 8 \\
&(N \geq 488)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+507) &= B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+506))+B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+505))+B_{\bar{N}}(2N+507-B_{\bar{N}}(2N+504)) \\
&= B_{\bar{N}}(2N+507-8)+B_{\bar{N}}(2N+507-(N+6))+B_{\bar{N}}(2N+507-(3N+507)) \\
&= B_{\bar{N}}(2N+499)+B_{\bar{N}}(N+501)+B_{\bar{N}}(-N) = \left(\frac{48N}{7}+\frac{913}{7}\right)+(2N+187)+0 = \frac{62N}{7}+\frac{2222}{7} \\
&(N \geq 487)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+508) &= B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+507))+B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+506))+B_{\bar{N}}(2N+508-B_{\bar{N}}(2N+505)) \\
&= B_{\bar{N}}\left(2N+508-\left(\frac{62N}{7}+\frac{2222}{7}\right)\right)+B_{\bar{N}}(2N+508-8)+B_{\bar{N}}(2N+508-(N+6)) \\
&= B_{\bar{N}}\left(-\frac{48N}{7}+\frac{1334}{7}\right)+B_{\bar{N}}(2N+500)+B_{\bar{N}}(N+502) = 0+\left(\frac{15N}{7}-\frac{24}{7}\right)+(2N+64) = \frac{29N}{7}+\frac{424}{7} \\
&(N \geq 486)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+509) &= B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+508))+B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+507))+B_{\bar{N}}(2N+509-B_{\bar{N}}(2N+506)) \\
&= B_{\bar{N}}\left(2N+509-\left(\frac{29N}{7}+\frac{424}{7}\right)\right)+B_{\bar{N}}\left(2N+509-\left(\frac{62N}{7}+\frac{2222}{7}\right)\right)+B_{\bar{N}}(2N+509-8) \\
&= B_{\bar{N}}\left(-\frac{15N}{7}+\frac{3139}{7}\right)+B_{\bar{N}}\left(-\frac{48N}{7}+\frac{1341}{7}\right)+B_{\bar{N}}(2N+501)=0+0+(N-2)=N-2 \\
&(N\geq 462)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+510) &= B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+509))+B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+508))+B_{\bar{N}}(2N+510-B_{\bar{N}}(2N+507)) \\
&= B_{\bar{N}}(2N+510-(N-2))+B_{\bar{N}}\left(2N+510-\left(\frac{29N}{7}+\frac{424}{7}\right)\right)+B_{\bar{N}}\left(2N+510-\left(\frac{62N}{7}+\frac{2222}{7}\right)\right) \\
&= B_{\bar{N}}(N+512)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{3146}{7}\right)+B_{\bar{N}}\left(-\frac{48N}{7}+\frac{1348}{7}\right)=(N+513)+0+0=N+513 \\
&(N\geq 463)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+511) &= B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+510))+B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+509))+B_{\bar{N}}(2N+511-B_{\bar{N}}(2N+508)) \\
&= B_{\bar{N}}(2N+511-(N+513))+B_{\bar{N}}(2N+511-(N-2))+B_{\bar{N}}\left(2N+511-\left(\frac{29N}{7}+\frac{424}{7}\right)\right) \\
&= B_{\bar{N}}(N-2)+B_{\bar{N}}(N+513)+B_{\bar{N}}\left(-\frac{15N}{7}+\frac{3153}{7}\right)=(N-2)+(N+515)+0=2N+513 \\
&(N\geq 211)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+512) &= B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+511))+B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+510))+B_{\bar{N}}(2N+512-B_{\bar{N}}(2N+509)) \\
&= B_{\bar{N}}(2N+512-(2N+513))+B_{\bar{N}}(2N+512-(N+513))+B_{\bar{N}}(2N+512-(N-2)) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}(N-1)+B_{\bar{N}}(N+514)=0+(N-1)+7=N+6 \\
&(N\geq 186)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+513) &= B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+512))+B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+511))+B_{\bar{N}}(2N+513-B_{\bar{N}}(2N+510)) \\
&= B_{\bar{N}}(2N+513-(N+6))+B_{\bar{N}}(2N+513-(2N+513))+B_{\bar{N}}(2N+513-(N+513)) \\
&= B_{\bar{N}}(N+507)+B_{\bar{N}}(0)+B_{\bar{N}}(N) = 7+0+N = N+7 \\
&(N \geq 187)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+514) &= B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+513))+B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+512))+B_{\bar{N}}(2N+514-B_{\bar{N}}(2N+511)) \\
&= B_{\bar{N}}(2N+514-(N+7))+B_{\bar{N}}(2N+514-(N+6))+B_{\bar{N}}(2N+514-(2N+513)) \\
&= B_{\bar{N}}(N+507)+B_{\bar{N}}(N+508)+B_{\bar{N}}(1) = 7+(2N+189)+1 = 2N+197 \\
&(N \geq 1423)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+515) &= B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+514))+B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+513))+B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+512)) \\
&= B_{\bar{N}}(2N+515-(2N+197))+B_{\bar{N}}(2N+515-(N+7))+B_{\bar{N}}(2N+515-(N+6)) \\
&= B_{\bar{N}}(318)+B_{\bar{N}}(N+508)+B_{\bar{N}}(N+509) = 318+(2N+189)+(2N+65) = 4N+572 \\
&(N \geq 3138)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+516) &= B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+515))+B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+514))+B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+513)) \\
&= B_{\bar{N}}(2N+516-(4N+572))+B_{\bar{N}}(2N+516-(2N+197))+B_{\bar{N}}(2N+516-(N+7)) \\
&= B_{\bar{N}}(-2N-56)+B_{\bar{N}}(319)+B_{\bar{N}}(N+509) = 0+319+(2N+65) = 2N+384 \\
&(N \geq 3145)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+517) &= B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+516))+B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+515))+B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+514)) \\
&= B_{\bar{N}}(2N+517-(2N+384))+B_{\bar{N}}(2N+517-(4N+572))+B_{\bar{N}}(2N+517-(2N+197)) \\
&= B_{\bar{N}}(133)+B_{\bar{N}}(-2N-55)+B_{\bar{N}}(320) = 133+0+320 = 453 \\
&(N \geq 3152)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+518) &= B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+517))+B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+516))+B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+515)) \\
&= B_{\bar{N}}(2N+518-453)+B_{\bar{N}}(2N+518-(2N+384))+B_{\bar{N}}(2N+518-(4N+572)) \\
&= B_{\bar{N}}(2N+65)+B_{\bar{N}}(134)+B_{\bar{N}}(-2N-54) = (N+80)+134+0 = N+214 \\
&(N \geq 134)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+519) &= B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+518))+B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+517))+B_{\bar{N}}(2N+519-B_{\bar{N}}(2N+516)) \\
&= B_{\bar{N}}(2N+519-(N+214))+B_{\bar{N}}(2N+519-453)+B_{\bar{N}}(2N+519-(2N+384)) \\
&= B_{\bar{N}}(N+305)+B_{\bar{N}}(2N+66)+B_{\bar{N}}(135) = (2N+131)+(N+46)+135 = 3N+312 \\
&(N \geq 135)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+520) &= B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+519))+B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+518))+B_{\bar{N}}(2N+520-B_{\bar{N}}(2N+517)) \\
&= B_{\bar{N}}(2N+520-(3N+312))+B_{\bar{N}}(2N+520-(N+214))+B_{\bar{N}}(2N+520-453) \\
&= B_{\bar{N}}(-N+208)+B_{\bar{N}}(N+306)+B_{\bar{N}}(2N+67) = 0+(2N+36)+(2N+52) = 4N+88 \\
&(N \geq 208)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+521) &= B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+520))+B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+519))+B_{\bar{N}}(2N+521-B_{\bar{N}}(2N+518)) \\
&= B_{\bar{N}}(2N+521-(4N+88))+B_{\bar{N}}(2N+521-(3N+312))+B_{\bar{N}}(2N+521-(N+214)) \\
&= B_{\bar{N}}(-2N+433)+B_{\bar{N}}(-N+209)+B_{\bar{N}}(N+307) = 0+0+(N-2) = N-2 \\
&(N \geq 217)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+522) &= B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+521))+B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+520))+B_{\bar{N}}(2N+522-B_{\bar{N}}(2N+519)) \\
&= B_{\bar{N}}(2N+522-(N-2))+B_{\bar{N}}(2N+522-(4N+88))+B_{\bar{N}}(2N+522-(3N+312)) \\
&= B_{\bar{N}}(N+524)+B_{\bar{N}}(-2N+434)+B_{\bar{N}}(-N+210) = (N-2)+0+0 = N-2 \\
&(N \geq 217)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+523) &= B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+522))+B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+521))+B_{\bar{N}}(2N+523-B_{\bar{N}}(2N+520)) \\
&= B_{\bar{N}}(2N+523-(N-2))+B_{\bar{N}}(2N+523-(N-2))+B_{\bar{N}}(2N+523-(4N+88)) \\
&= B_{\bar{N}}(N+525)+B_{\bar{N}}(N+525)+B_{\bar{N}}(-2N+435)=527+527+0=1054 \\
&(N \geq 218)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+524) &= B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+523))+B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+522))+B_{\bar{N}}(2N+524-B_{\bar{N}}(2N+521)) \\
&= B_{\bar{N}}(2N+524-1054)+B_{\bar{N}}(2N+524-(N-2))+B_{\bar{N}}(2N+524-(N-2)) \\
&= B_{\bar{N}}(2N-530)+B_{\bar{N}}(N+526)+B_{\bar{N}}(N+526)=\left(\frac{15N}{7}-\frac{584}{7}\right)+(N+527)+(N+527)=\frac{29N}{7}+\frac{6794}{7} \\
&(N \geq 3201)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+525) &= B_{\bar{N}}(2N+525-B_{\bar{N}}(2N+524))+B_{\bar{N}}(2N+525-B_{\bar{N}}(2N+523))+B_{\bar{N}}(2N+525-B_{\bar{N}}(2N+522)) \\
&= B_{\bar{N}}\left(2N+525-\left(\frac{29N}{7}+\frac{6794}{7}\right)\right)+B_{\bar{N}}(2N+525-1054)+B_{\bar{N}}(2N+525-(N-2)) \\
&= B_{\bar{N}}\left(-\frac{15N}{7}-\frac{3119}{7}\right)+B_{\bar{N}}(2N-529)+B_{\bar{N}}(N+527)=0+(N-2)+(N+529)=2N+527 \\
&(N \geq 596)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+526) &= B_{\bar{N}}(2N+526-B_{\bar{N}}(2N+525))+B_{\bar{N}}(2N+526-B_{\bar{N}}(2N+524))+B_{\bar{N}}(2N+526-B_{\bar{N}}(2N+523)) \\
&= B_{\bar{N}}(2N+526-(2N+527))+B_{\bar{N}}\left(2N+526-\left(\frac{29N}{7}+\frac{6794}{7}\right)\right)+B_{\bar{N}}(2N+526-1054) \\
&= B_{\bar{N}}(-1)+B_{\bar{N}}\left(-\frac{15N}{7}-\frac{3112}{7}\right)+B_{\bar{N}}(2N-528)=0+0+(N-526)=N-526 \\
&(N \geq 595)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+527) &= B_{\bar{N}}(2N+527-B_{\bar{N}}(2N+526))+B_{\bar{N}}(2N+527-B_{\bar{N}}(2N+525))+B_{\bar{N}}(2N+527-B_{\bar{N}}(2N+524)) \\
&= B_{\bar{N}}(2N+527-(N-526))+B_{\bar{N}}(2N+527-(2N+527))+B_{\bar{N}}\left(2N+527-\left(\frac{29N}{7}+\frac{6794}{7}\right)\right) \\
&= B_{\bar{N}}(N+1053)+B_{\bar{N}}(0)+B_{\bar{N}}\left(-\frac{15N}{7}-\frac{3105}{7}\right)=7+0+0=7 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+528) &= B_{\bar{N}}(2N+528-B_{\bar{N}}(2N+527))+B_{\bar{N}}(2N+528-B_{\bar{N}}(2N+526))+B_{\bar{N}}(2N+528-B_{\bar{N}}(2N+525)) \\
&= B_{\bar{N}}(2N+528-7)+B_{\bar{N}}(2N+528-(N-526))+B_{\bar{N}}(2N+528-(2N+527)) \\
&= B_{\bar{N}}(2N+521)+B_{\bar{N}}(N+1054)+B_{\bar{N}}(1)=(N-2)+(2N+345)+1=3N+344 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+529) &= B_{\bar{N}}(2N+529-B_{\bar{N}}(2N+528))+B_{\bar{N}}(2N+529-B_{\bar{N}}(2N+527))+B_{\bar{N}}(2N+529-B_{\bar{N}}(2N+526)) \\
&= B_{\bar{N}}(2N+529-(3N+344))+B_{\bar{N}}(2N+529-7)+B_{\bar{N}}(2N+529-(N-526)) \\
&= B_{\bar{N}}(-N+185)+B_{\bar{N}}(2N+522)+B_{\bar{N}}(N+1055)=0+(N-2)+(2N+143)=3N+141 \\
&(N \geq 185)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+530) &= B_{\bar{N}}(2N+530-B_{\bar{N}}(2N+529))+B_{\bar{N}}(2N+530-B_{\bar{N}}(2N+528))+B_{\bar{N}}(2N+530-B_{\bar{N}}(2N+527)) \\
&= B_{\bar{N}}(2N+530-(3N+141))+B_{\bar{N}}(2N+530-(3N+344))+B_{\bar{N}}(2N+530-7) \\
&= B_{\bar{N}}(-N+389)+B_{\bar{N}}(-N+186)+B_{\bar{N}}(2N+523)=0+0+1054=1054 \\
&(N \geq 389)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+531) &= B_{\bar{N}}(2N+531-B_{\bar{N}}(2N+530))+B_{\bar{N}}(2N+531-B_{\bar{N}}(2N+529))+B_{\bar{N}}(2N+531-B_{\bar{N}}(2N+528)) \\
&= B_{\bar{N}}(2N+531-1054)+B_{\bar{N}}(2N+531-(3N+141))+B_{\bar{N}}(2N+531-(3N+344)) \\
&= B_{\bar{N}}(2N-523)+B_{\bar{N}}(-N+390)+B_{\bar{N}}(-N+187)=\left(\frac{15N}{7}-\frac{577}{7}\right)+0+0=\frac{15N}{7}-\frac{577}{7} \\
&(N \geq 590)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+532) &= B_{\bar{N}}(2N+532-B_{\bar{N}}(2N+531))+B_{\bar{N}}(2N+532-B_{\bar{N}}(2N+530))+B_{\bar{N}}(2N+532-B_{\bar{N}}(2N+529)) \\
&= B_{\bar{N}}\left(2N+532-\left(\frac{15N}{7}-\frac{577}{7}\right)\right)+B_{\bar{N}}(2N+532-1054)+B_{\bar{N}}(2N+532-(3N+141)) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{4301}{7}\right)+B_{\bar{N}}(2N-522)+B_{\bar{N}}(-N+391)=0+(N-2)+0=N-2 \\
&(N\geq 4301)* \\
\\
B_{\bar{N}}(2N+533) &= B_{\bar{N}}(2N+533-B_{\bar{N}}(2N+532))+B_{\bar{N}}(2N+533-B_{\bar{N}}(2N+531))+B_{\bar{N}}(2N+533-B_{\bar{N}}(2N+530)) \\
&= B_{\bar{N}}(2N+533-(N-2))+B_{\bar{N}}\left(2N+533-\left(\frac{15N}{7}-\frac{577}{7}\right)\right)+B_{\bar{N}}(2N+533-1054) \\
&= B_{\bar{N}}(N+535)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{4308}{7}\right)+B_{\bar{N}}(2N-521)=7+0+(N-519)=N-512 \\
&(N\geq 4308)* \\
\\
B_{\bar{N}}(2N+534) &= B_{\bar{N}}(2N+534-B_{\bar{N}}(2N+533))+B_{\bar{N}}(2N+534-B_{\bar{N}}(2N+532))+B_{\bar{N}}(2N+534-B_{\bar{N}}(2N+531)) \\
&= B_{\bar{N}}(2N+534-(N-512))+B_{\bar{N}}(2N+534-(N-2))+B_{\bar{N}}\left(2N+534-\left(\frac{15N}{7}-\frac{577}{7}\right)\right) \\
&= B_{\bar{N}}(N+1046)+B_{\bar{N}}(N+536)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{4315}{7}\right)=7+(2N+197)+0=2N+204 \\
&(N\geq 4315)* \\
\\
B_{\bar{N}}(2N+535) &= B_{\bar{N}}(2N+535-B_{\bar{N}}(2N+534))+B_{\bar{N}}(2N+535-B_{\bar{N}}(2N+533))+B_{\bar{N}}(2N+535-B_{\bar{N}}(2N+532)) \\
&= B_{\bar{N}}(2N+535-(2N+204))+B_{\bar{N}}(2N+535-(N-512))+B_{\bar{N}}(2N+535-(N-2)) \\
&= B_{\bar{N}}(331)+B_{\bar{N}}(N+1047)+B_{\bar{N}}(N+537)=331+(2N+343)+(2N+69)=4N+743 \\
&(N\geq 331)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+536) &= B_{\bar{N}}(2N+536-B_{\bar{N}}(2N+535))+B_{\bar{N}}(2N+536-B_{\bar{N}}(2N+534))+B_{\bar{N}}(2N+536-B_{\bar{N}}(2N+533)) \\
&= B_{\bar{N}}(2N+536-(4N+743))+B_{\bar{N}}(2N+536-(2N+204))+B_{\bar{N}}(2N+536-(N-512)) \\
&= B_{\bar{N}}(-2N-207)+B_{\bar{N}}(332)+B_{\bar{N}}(N+1048) = 0+332+(2N+142) = 2N+474 \\
&(N \geq 332)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+537) &= B_{\bar{N}}(2N+537-B_{\bar{N}}(2N+536))+B_{\bar{N}}(2N+537-B_{\bar{N}}(2N+535))+B_{\bar{N}}(2N+537-B_{\bar{N}}(2N+534)) \\
&= B_{\bar{N}}(2N+537-(2N+474))+B_{\bar{N}}(2N+537-(4N+743))+B_{\bar{N}}(2N+537-(2N+204)) \\
&= B_{\bar{N}}(63)+B_{\bar{N}}(-2N-206)+B_{\bar{N}}(333) = 63+0+333 = 396 \\
&(N \geq 333)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+538) &= B_{\bar{N}}(2N+538-B_{\bar{N}}(2N+537))+B_{\bar{N}}(2N+538-B_{\bar{N}}(2N+536))+B_{\bar{N}}(2N+538-B_{\bar{N}}(2N+535)) \\
&= B_{\bar{N}}(2N+538-396)+B_{\bar{N}}(2N+538-(2N+474))+B_{\bar{N}}(2N+538-(4N+743)) \\
&= B_{\bar{N}}(2N+142)+B_{\bar{N}}(64)+B_{\bar{N}}(-2N-205) = (2N+75)+64+0 = 2N+139 \\
&(N \geq 64)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+539) &= B_{\bar{N}}(2N+539-B_{\bar{N}}(2N+538))+B_{\bar{N}}(2N+539-B_{\bar{N}}(2N+537))+B_{\bar{N}}(2N+539-B_{\bar{N}}(2N+536)) \\
&= B_{\bar{N}}(2N+539-(2N+139))+B_{\bar{N}}(2N+539-396)+B_{\bar{N}}(2N+539-(2N+474)) \\
&= B_{\bar{N}}(400)+B_{\bar{N}}(2N+143)+B_{\bar{N}}(65) = 400+68+65 = 533 \\
&(N \geq 400)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+540) &= B_{\bar{N}}(2N+540-B_{\bar{N}}(2N+539))+B_{\bar{N}}(2N+540-B_{\bar{N}}(2N+538))+B_{\bar{N}}(2N+540-B_{\bar{N}}(2N+537)) \\
&= B_{\bar{N}}(2N+540-533)+B_{\bar{N}}(2N+540-(2N+139))+B_{\bar{N}}(2N+540-396) \\
&= B_{\bar{N}}(2N+7)+B_{\bar{N}}(401)+B_{\bar{N}}(2N+144) = (3N+2)+401+(2N+61) = 5N+464 \\
&(N \geq 401)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+541) &= B_{\bar{N}}(2N+541-B_{\bar{N}}(2N+540))+B_{\bar{N}}(2N+541-B_{\bar{N}}(2N+539))+B_{\bar{N}}(2N+541-B_{\bar{N}}(2N+538)) \\
&= B_{\bar{N}}(2N+541-(5N+464))+B_{\bar{N}}(2N+541-533)+B_{\bar{N}}(2N+541-(2N+139)) \\
&= B_{\bar{N}}(-3N+77)+B_{\bar{N}}(2N+8)+B_{\bar{N}}(402) = 0+15+402 = 417 \\
&(N \geq 402)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+542) &= B_{\bar{N}}(2N+542-B_{\bar{N}}(2N+541))+B_{\bar{N}}(2N+542-B_{\bar{N}}(2N+540))+B_{\bar{N}}(2N+542-B_{\bar{N}}(2N+539)) \\
&= B_{\bar{N}}(2N+542-417)+B_{\bar{N}}(2N+542-(5N+464))+B_{\bar{N}}(2N+542-533) \\
&= B_{\bar{N}}(2N+125)+B_{\bar{N}}(-3N+78)+B_{\bar{N}}(2N+9) = (N+17)+0+\left(\frac{32N}{7}+\frac{590}{7}\right) = \frac{39N}{7}+\frac{709}{7} \\
&(N \geq 26)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+543) &= B_{\bar{N}}(2N+543-B_{\bar{N}}(2N+542))+B_{\bar{N}}(2N+543-B_{\bar{N}}(2N+541))+B_{\bar{N}}(2N+543-B_{\bar{N}}(2N+540)) \\
&= B_{\bar{N}}\left(2N+543-\left(\frac{39N}{7}+\frac{709}{7}\right)\right)+B_{\bar{N}}(2N+543-417)+B_{\bar{N}}(2N+543-(5N+464)) \\
&= B_{\bar{N}}\left(-\frac{25N}{7}+\frac{3092}{7}\right)+B_{\bar{N}}(2N+126)+B_{\bar{N}}(-3N+79) = 0+(3N+88)+0 = 3N+88 \\
&(N \geq 124)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+544) &= B_{\bar{N}}(2N+544-B_{\bar{N}}(2N+543))+B_{\bar{N}}(2N+544-B_{\bar{N}}(2N+542))+B_{\bar{N}}(2N+544-B_{\bar{N}}(2N+541)) \\
&= B_{\bar{N}}(2N+544-(3N+88))+B_{\bar{N}}\left(2N+544-\left(\frac{39N}{7}+\frac{709}{7}\right)\right)+B_{\bar{N}}(2N+544-417) \\
&= B_{\bar{N}}(-N+456)+B_{\bar{N}}\left(-\frac{25N}{7}+\frac{3099}{7}\right)+B_{\bar{N}}(2N+127) = 0+0+(2N+15) = 2N+15 \\
&(N \geq 456)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+545) &= B_{\bar{N}}(2N+545-B_{\bar{N}}(2N+544))+B_{\bar{N}}(2N+545-B_{\bar{N}}(2N+543))+B_{\bar{N}}(2N+545-B_{\bar{N}}(2N+542)) \\
&= B_{\bar{N}}(2N+545-(2N+15))+B_{\bar{N}}(2N+545-(3N+88))+B_{\bar{N}}\left(2N+545-\left(\frac{39N}{7}+\frac{709}{7}\right)\right) \\
&= B_{\bar{N}}(530)+B_{\bar{N}}(-N+457)+B_{\bar{N}}\left(-\frac{25N}{7}+\frac{3106}{7}\right)=530+0+0=530 \\
&(N \geq 530)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+546) &= B_{\bar{N}}(2N+546-B_{\bar{N}}(2N+545))+B_{\bar{N}}(2N+546-B_{\bar{N}}(2N+544))+B_{\bar{N}}(2N+546-B_{\bar{N}}(2N+543)) \\
&= B_{\bar{N}}(2N+546-530)+B_{\bar{N}}(2N+546-(2N+15))+B_{\bar{N}}(2N+546-(3N+88)) \\
&= B_{\bar{N}}(2N+16)+B_{\bar{N}}(531)+B_{\bar{N}}(-N+458)=(2N+6)+531+0=2N+537 \\
&(N \geq 531)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+547) &= B_{\bar{N}}(2N+547-B_{\bar{N}}(2N+546))+B_{\bar{N}}(2N+547-B_{\bar{N}}(2N+545))+B_{\bar{N}}(2N+547-B_{\bar{N}}(2N+544)) \\
&= B_{\bar{N}}(2N+547-(2N+537))+B_{\bar{N}}(2N+547-530)+B_{\bar{N}}(2N+547-(2N+15)) \\
&= B_{\bar{N}}(10)+B_{\bar{N}}(2N+17)+B_{\bar{N}}(532)=10+(2N+16)+532=2N+558 \\
&(N \geq 532)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+548) &= B_{\bar{N}}(2N+548-B_{\bar{N}}(2N+547))+B_{\bar{N}}(2N+548-B_{\bar{N}}(2N+546))+B_{\bar{N}}(2N+548-B_{\bar{N}}(2N+545)) \\
&= B_{\bar{N}}(2N+548-(2N+558))+B_{\bar{N}}(2N+548-(2N+537))+B_{\bar{N}}(2N+548-530) \\
&= B_{\bar{N}}(-10)+B_{\bar{N}}(11)+B_{\bar{N}}(2N+18)=0+11+29=40 \\
&(N \geq 11)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+549) &= B_{\bar{N}}(2N+549-B_{\bar{N}}(2N+548))+B_{\bar{N}}(2N+549-B_{\bar{N}}(2N+547))+B_{\bar{N}}(2N+549-B_{\bar{N}}(2N+546)) \\
&= B_{\bar{N}}(2N+549-40)+B_{\bar{N}}(2N+549-(2N+558))+B_{\bar{N}}(2N+549-(2N+537)) \\
&= B_{\bar{N}}(2N+509)+B_{\bar{N}}(-9)+B_{\bar{N}}(12)=(N-2)+0+12=N+10 \\
&(N \geq 12)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+550) &= B_{\bar{N}}(2N+550-B_{\bar{N}}(2N+549))+B_{\bar{N}}(2N+550-B_{\bar{N}}(2N+548))+B_{\bar{N}}(2N+550-B_{\bar{N}}(2N+547)) \\
&= B_{\bar{N}}(2N+550-(N+10))+B_{\bar{N}}(2N+550-40)+B_{\bar{N}}(2N+550-(2N+558)) \\
&= B_{\bar{N}}(N+540)+B_{\bar{N}}(2N+510)+B_{\bar{N}}(-8) = (N+541)+(N+513)+0 = 2N+1054 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+551) &= B_{\bar{N}}(2N+551-B_{\bar{N}}(2N+550))+B_{\bar{N}}(2N+551-B_{\bar{N}}(2N+549))+B_{\bar{N}}(2N+551-B_{\bar{N}}(2N+548)) \\
&= B_{\bar{N}}(2N+551-(2N+1054))+B_{\bar{N}}(2N+551-(N+10))+B_{\bar{N}}(2N+551-40) \\
&= B_{\bar{N}}(-503)+B_{\bar{N}}(N+541)+B_{\bar{N}}(2N+511) = 0+(N+543)+(2N+513) = 3N+1056 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+552) &= B_{\bar{N}}(2N+552-B_{\bar{N}}(2N+551))+B_{\bar{N}}(2N+552-B_{\bar{N}}(2N+550))+B_{\bar{N}}(2N+552-B_{\bar{N}}(2N+549)) \\
&= B_{\bar{N}}(2N+552-(3N+1056))+B_{\bar{N}}(2N+552-(2N+1054))+B_{\bar{N}}(2N+552-(N+10)) \\
&= B_{\bar{N}}(-N-504)+B_{\bar{N}}(-502)+B_{\bar{N}}(N+542) = 0+0+7 = 7 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+553) &= B_{\bar{N}}(2N+553-B_{\bar{N}}(2N+552))+B_{\bar{N}}(2N+553-B_{\bar{N}}(2N+551))+B_{\bar{N}}(2N+553-B_{\bar{N}}(2N+550)) \\
&= B_{\bar{N}}(2N+553-7)+B_{\bar{N}}(2N+553-(3N+1056))+B_{\bar{N}}(2N+553-(2N+1054)) \\
&= B_{\bar{N}}(2N+546)+B_{\bar{N}}(-N-503)+B_{\bar{N}}(-501) = (2N+537)+0+0 = 2N+537 \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+554) &= B_{\bar{N}}(2N+554-B_{\bar{N}}(2N+553))+B_{\bar{N}}(2N+554-B_{\bar{N}}(2N+552))+B_{\bar{N}}(2N+554-B_{\bar{N}}(2N+551)) \\
&= B_{\bar{N}}(2N+554-(2N+537))+B_{\bar{N}}(2N+554-7)+B_{\bar{N}}(2N+554-(3N+1056)) \\
&= B_{\bar{N}}(17)+B_{\bar{N}}(2N+547)+B_{\bar{N}}(-N-502) = 17+(2N+558)+0 = 2N+575 \\
&(N \geq 17)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+555) &= B_{\bar{N}}(2N+555-B_{\bar{N}}(2N+554))+B_{\bar{N}}(2N+555-B_{\bar{N}}(2N+553))+B_{\bar{N}}(2N+555-B_{\bar{N}}(2N+552)) \\
&= B_{\bar{N}}(2N+555-(2N+575))+B_{\bar{N}}(2N+555-(2N+537))+B_{\bar{N}}(2N+555-7) \\
&= B_{\bar{N}}(-20)+B_{\bar{N}}(18)+B_{\bar{N}}(2N+548) = 0+18+40 = 58 \\
&(N \geq 18)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+556) &= B_{\bar{N}}(2N+556-B_{\bar{N}}(2N+555))+B_{\bar{N}}(2N+556-B_{\bar{N}}(2N+554))+B_{\bar{N}}(2N+556-B_{\bar{N}}(2N+553)) \\
&= B_{\bar{N}}(2N+556-58)+B_{\bar{N}}(2N+556-(2N+575))+B_{\bar{N}}(2N+556-(2N+537)) \\
&= B_{\bar{N}}(2N+498)+B_{\bar{N}}(-19)+B_{\bar{N}}(19) = 490+0+19 = 509 \\
&(N \geq 19)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+557) &= B_{\bar{N}}(2N+557-B_{\bar{N}}(2N+556))+B_{\bar{N}}(2N+557-B_{\bar{N}}(2N+555))+B_{\bar{N}}(2N+557-B_{\bar{N}}(2N+554)) \\
&= B_{\bar{N}}(2N+557-509)+B_{\bar{N}}(2N+557-58)+B_{\bar{N}}(2N+557-(2N+575)) \\
&= B_{\bar{N}}(2N+48)+B_{\bar{N}}(2N+499)+B_{\bar{N}}(-18) = (3N+29)+\left(\frac{48N}{7}+\frac{913}{7}\right)+0 = \frac{69N}{7}+\frac{1116}{7} \\
&(N \geq 1)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+558) &= B_{\bar{N}}(2N+558-B_{\bar{N}}(2N+557))+B_{\bar{N}}(2N+558-B_{\bar{N}}(2N+556))+B_{\bar{N}}(2N+558-B_{\bar{N}}(2N+555)) \\
&= B_{\bar{N}}\left(2N+558-\left(\frac{69N}{7}+\frac{1116}{7}\right)\right)+B_{\bar{N}}(2N+558-509)+B_{\bar{N}}(2N+558-58) \\
&= B_{\bar{N}}\left(-\frac{55N}{7}+\frac{2790}{7}\right)+B_{\bar{N}}(2N+49)+B_{\bar{N}}(2N+500) = 0+37+\left(\frac{15N}{7}-\frac{24}{7}\right) = \frac{15N}{7}+\frac{235}{7} \\
&(N \geq 51)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+559) &= B_{\bar{N}}(2N+559-B_{\bar{N}}(2N+558))+B_{\bar{N}}(2N+559-B_{\bar{N}}(2N+557))+B_{\bar{N}}(2N+559-B_{\bar{N}}(2N+556)) \\
&= B_{\bar{N}}\left(2N+559-\left(\frac{15N}{7}+\frac{235}{7}\right)\right)+B_{\bar{N}}\left(2N+559-\left(\frac{69N}{7}+\frac{1116}{7}\right)\right)+B_{\bar{N}}(2N+559-509) \\
&= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3678}{7}\right)+B_{\bar{N}}\left(-\frac{55N}{7}+\frac{2797}{7}\right)+B_{\bar{N}}(2N+50)=0+0+(3N+43)=3N+43 \\
&(N \geq 3678)
\end{aligned}
$$

$$
\begin{aligned}
B_{\bar{N}}(2N+560) &= B_{\bar{N}}(2N+560-B_{\bar{N}}(2N+559))+B_{\bar{N}}(2N+560-B_{\bar{N}}(2N+558))+B_{\bar{N}}(2N+560-B_{\bar{N}}(2N+557)) \\
&= B_{\bar{N}}(2N+560-(3N+43))+B_{\bar{N}}\left(2N+560-\left(\frac{15N}{7}+\frac{235}{7}\right)\right)+B_{\bar{N}}\left(2N+560-\left(\frac{69N}{7}+\frac{1116}{7}\right)\right) \\
&= B_{\bar{N}}(-N+517)+B_{\bar{N}}\left(-\frac{N}{7}+\frac{3685}{7}\right)+B_{\bar{N}}\left(-\frac{55N}{7}+\frac{2804}{7}\right)=0+0+0=0 \\
&(N \geq 3685)
\end{aligned}
$$