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

When $N \equiv 2 \pmod 7$ and $N \geq 72$, a pattern with 7 interleaved linear sequences lasts from index $N+67$ through $2N-2$. If $N \geq 3201$, there are 526 terms after this pattern ends. Below are calculations of all of these terms along with the necessary lower bound on N for each calculation to be valid. Record large N bounds exceeding 72 are presented in bold.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{B_{\bar{N}}(2N+515)} = B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+514)) + B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+513)) + B_{\bar{N}}(2N+515-B_{\bar{N}}(2N+512))$$
$$= B_{\bar{N}}\left(2N+515-\left(\frac{15N}{7}+\frac{467}{7}\right)\right) + B_{\bar{N}}\left(2N+515-\left(\frac{16N}{7}+\frac{752}{7}\right)\right) + B_{\bar{N}}(2N+515-581)$$
$$= B_{\bar{N}}\left(-\frac{N}{7}+\frac{3138}{7}\right) + B_{\bar{N}}\left(-\frac{2N}{7}+\frac{2853}{7}\right) + B_{\bar{N}}(2N-66) = 0+0+(N-2) = \mathbf{N-2}$$
$$(\mathbf{N \geq 3138})$$

$$\mathbf{B_{\bar{N}}(2N+516)} = B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+515)) + B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+514)) + B_{\bar{N}}(2N+516-B_{\bar{N}}(2N+513))$$
$$= B_{\bar{N}}(2N+516-(N-2)) + B_{\bar{N}}\left(2N+516-\left(\frac{15N}{7}+\frac{467}{7}\right)\right) + B_{\bar{N}}\left(2N+516-\left(\frac{16N}{7}+\frac{752}{7}\right)\right)$$
$$= B_{\bar{N}}(N+518) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{3145}{7}\right) + B_{\bar{N}}\left(-\frac{2N}{7}+\frac{2860}{7}\right) = 520+0+0 = \mathbf{520}$$
$$(\mathbf{N \geq 3145})$$

$$\mathbf{B_{\bar{N}}(2N+517)} = B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+516)) + B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+515)) + B_{\bar{N}}(2N+517-B_{\bar{N}}(2N+514))$$
$$= B_{\bar{N}}(2N+517-520) + B_{\bar{N}}(2N+517-(N-2)) + B_{\bar{N}}\left(2N+517-\left(\frac{15N}{7}+\frac{467}{7}\right)\right)$$
$$= B_{\bar{N}}(2N-3) + B_{\bar{N}}(N+519) + B_{\bar{N}}\left(-\frac{N}{7}+\frac{3152}{7}\right) = (N-2)+(N+520)+0 = \mathbf{2N+518}$$
$$(\mathbf{N \geq 3152})$$

$$\mathbf{B_{\bar{N}}(2N+518)} = B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+517)) + B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+516)) + B_{\bar{N}}(2N+518-B_{\bar{N}}(2N+515))$$
$$= B_{\bar{N}}(2N+518-(2N+518)) + B_{\bar{N}}(2N+518-520) + B_{\bar{N}}(2N+518-(N-2))$$
$$= B_{\bar{N}}(0) + B_{\bar{N}}(2N-2) + B_{\bar{N}}(N+520) = 0+N+(N+522) = \mathbf{2N+522}$$
$$(N \geq 69)$$

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

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

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

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

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

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