

```
Diagrams[4 ar] // Length
```

```
1680
```

```
diag = Diagrams[4 ar][[1002]]
```

```
Diag[ar[1, 6], ar[3, 7], ar[4, 2], ar[8, 5]]
```

```
UGLnBiAlg[diag] // Timing
```

A very large output was generated. Here is a sample of it:

```
{246.622,  $\frac{1}{16} n h[1]^2 RW[] + \frac{1}{4} n^2 h[1]^2 RW[101] - \frac{1}{8} n^2 h[1]^3 RW[101] +$   
 $\frac{1}{8} n^2 h[1]^4 RW[101] + \ll 68\ 379 \gg + 24 n^8 RW[108, 207, 304, 403, 506, 605, 702, 801] +$   
 $24 n^8 RW[108, 207, 305, 406, 503, 604, 702, 801] +$   
 $24 n^8 RW[108, 207, 306, 405, 504, 603, 702, 801]}$ 
```

[Show Less](#)[Show More](#)[Show Full Output](#)[Set Size Limit...](#)

```
BasisAArrow[4]
```

```

Diag[ar[3, 6], ar[5, 2], ar[7, 1], ar[8, 4]], Diag[ar[4, 8], ar[5, 2], ar[6, 3], ar[7, 1]],
Diag[ar[5, 2], ar[6, 3], ar[7, 1], ar[8, 4]], Diag[ar[3, 8], ar[4, 6], ar[5, 2], ar[7, 1]],
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Diag[ar[4, 5], ar[6, 2], ar[7, 1], ar[8, 3]], Diag[ar[5, 4], ar[6, 2], ar[7, 1], ar[8, 3]],
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Diag[ar[1, 8], ar[5, 4], ar[6, 3], ar[7, 2]], Diag[ar[5, 2], ar[6, 4], ar[7, 3], ar[8, 1]],
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Diag[ar[3, 7], ar[4, 5], ar[6, 2], ar[8, 1]], Diag[ar[3, 7], ar[5, 4], ar[6, 2], ar[8, 1]],
Diag[ar[4, 5], ar[6, 2], ar[7, 3], ar[8, 1]], Diag[ar[5, 4], ar[6, 2], ar[7, 3], ar[8, 1]],
Diag[ar[2, 7], ar[3, 5], ar[6, 4], ar[8, 1]], Diag[ar[2, 7], ar[4, 6], ar[5, 3], ar[8, 1]],
Diag[ar[2, 7], ar[5, 3], ar[6, 4], ar[8, 1]], Diag[ar[2, 7], ar[3, 6], ar[4, 5], ar[8, 1]],
Diag[ar[2, 7], ar[3, 6], ar[5, 4], ar[8, 1]], Diag[ar[2, 7], ar[4, 5], ar[6, 3], ar[8, 1]],
Diag[ar[2, 7], ar[5, 4], ar[6, 3], ar[8, 1]], Diag[ar[3, 5], ar[6, 4], ar[7, 2], ar[8, 1]],

```