

# Lab3

SAF

2025-03-08

## Part 1: Iterations

### Question 1 - Creating For and While loops (using large\_vector data set)

**1A.** Use a while loop to assign a new variable, mean\_while, as the mean of large\_vector. Use print to display this value.

```
## [1] 7.900514
```

**1B.** Use a for loop to assign a new variable, mean\_for, as the mean of large\_vector. Use print to display this value.

```
## [1] 7.900514
```

```
## [1] 2461837
```

**1C.** How are these methods similar and how might vectorized functions be superior?

*These two loops, for and while, using similar methods but with different count validation statements at the top of each loop. Where the for loop uses (i in count:countLim) for iteration checks and the while loop uses (count <= countLim) to validate the loop count.*

*One example of how vector functions are superior are how they can be mathematically manipulate large amounts of elements within the vector. For example, the vector "large\_vector" holds 2,461,837 elements or numbers. A simple for/while loop is able to quickly run a summation of each vector element and find isn't mean.*

### Question 2 - Loops vs vectorized functions

uses the large\_vector data set.

For Question 2, parts A and B, we will normalize each element in large\_vector by the total sum of large\_vector using for loops and the vectorized function mean. Algorithms for each method should be encapsulated within tic and toc to compare computation time as shown in the example below: After tic and toc encapsulation to show computation times for each method, show that the normalization was done correctly by summing each element in the normalized vector (they should equal one after normalization).

```
## Warning: package 'tictoc' was built under R version 4.4.3
```

```
## 3.05 sec elapsed
```

**2A.** Use vectorized functions to assign a new variable, norm\_vectorized, using the normalization described in the question stem. For this question, it is permissible to use vectorized functions to verify that the normalization was done correctly.

```
## 0.06 sec elapsed
```

**2B.** Use a for loop to assign a new variable, norm\_loop, using the normalization described in the question stem. For this question, it IS NOT permissible to use vectorized function to calculate total sum (use a for loop).

[illegible]

[illegible]

```

## [541] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [546] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
## [551] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [556] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [561] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [566] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [571] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [576] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [581] 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [586] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [591] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [596] 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [601] 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [606] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [611] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [616] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05
## [621] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [626] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [631] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [636] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [641] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [646] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [651] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [656] 0.000000e+00 4.144568e-05 4.144568e-05 0.000000e+00 0.000000e+00
## [661] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [666] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [671] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [676] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [681] 2.072284e-05 2.072284e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [686] 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00 2.072284e-05
## [691] 0.000000e+00 0.000000e+00 2.072284e-05 4.144568e-05 0.000000e+00
## [696] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [701] 2.072284e-05 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [706] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [711] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [716] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [721] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [726] 0.000000e+00 1.036142e-05 7.252993e-05 0.000000e+00 0.000000e+00
## [731] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [736] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [741] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [746] 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [751] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [756] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [761] 0.000000e+00 1.036142e-05 2.072284e-05 2.072284e-05 0.000000e+00
## [766] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [771] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [776] 1.036142e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [781] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [786] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [791] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [796] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [801] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [806] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00

```

```

## [811] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [816] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [821] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [826] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [831] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [836] 1.036142e-05 0.000000e+00 0.000000e+00 6.216851e-05 1.036142e-05
## [841] 5.180710e-05 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [846] 3.108426e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [851] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [856] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [861] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [866] 0.000000e+00 3.108426e-05 1.036142e-05 4.144568e-05 0.000000e+00
## [871] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [876] 0.000000e+00 4.144568e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [881] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [886] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [891] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [896] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [901] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [906] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [911] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [916] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [921] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [926] 1.036142e-05 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [931] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [936] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [941] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [951] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [956] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [961] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [966] 5.180710e-05 5.180710e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [971] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [981] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [986] 0.000000e+00 3.108426e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [991] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [996] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1001] 2.072284e-05 1.036142e-05 0.000000e+00 2.072284e-05 1.036142e-05
## [1006] 1.036142e-05 0.000000e+00 5.180710e-05 0.000000e+00 2.072284e-05
## [1011] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1016] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1021] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1026] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [1031] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1036] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1041] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1046] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [1051] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1056] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
## [1061] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [1066] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1071] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1076] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00

```

[illegible]

[illegible]

```

## [1621] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 4.144568e-05
## [1626] 0.000000e+00 0.000000e+00 6.216851e-05 1.036142e-05 0.000000e+00
## [1631] 2.072284e-05 4.144568e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [1636] 2.072284e-05 0.000000e+00 6.216851e-05 0.000000e+00 4.144568e-05
## [1641] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1646] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1651] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [1656] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1661] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [1666] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1671] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1676] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [1681] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [1686] 0.000000e+00 2.072284e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [1691] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1696] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [1701] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [1706] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [1711] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1716] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1721] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1726] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1731] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1736] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1741] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1746] 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1751] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [1756] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1761] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [1766] 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1771] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1776] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1781] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [1786] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 3.108426e-05
## [1791] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [1796] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [1801] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1806] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [1811] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1816] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [1821] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1826] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [1831] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1836] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1841] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1846] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [1851] 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [1856] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [1861] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1866] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1871] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [1876] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [1881] 1.036142e-05 0.000000e+00 3.108426e-05 3.108426e-05 1.036142e-05
## [1886] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00

```



```

## [1891] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [1896] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [1901] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [1906] 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00
## [1911] 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00
## [1916] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1921] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1926] 1.036142e-05 1.036142e-05 6.216851e-05 0.000000e+00 0.000000e+00
## [1931] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1936] 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [1941] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1951] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1956] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1961] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1966] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [1971] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 9.325277e-05
## [1981] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1986] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [1991] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [1996] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2001] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2006] 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00
## [2011] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [2016] 0.000000e+00 4.144568e-05 2.072284e-05 1.036142e-05 3.108426e-05
## [2021] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2026] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [2031] 2.072284e-05 5.180710e-05 2.072284e-05 0.000000e+00 1.036142e-05
## [2036] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2041] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2046] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2051] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2056] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [2061] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2066] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [2071] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [2076] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2081] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2086] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2091] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2096] 3.108426e-05 9.325277e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [2101] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [2106] 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00 2.072284e-05
## [2111] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2116] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 2.072284e-05
## [2121] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [2126] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 9.325277e-05
## [2131] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [2136] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2141] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2146] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2151] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [2156] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 4.144568e-05

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[illegible]

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## [2706] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2711] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2716] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2721] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2726] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2731] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2736] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2741] 2.072284e-05 0.000000e+00 0.000000e+00 5.180710e-05 2.072284e-05
## [2746] 2.072284e-05 4.144568e-05 1.036142e-05 3.108426e-05 0.000000e+00
## [2751] 1.036142e-05 0.000000e+00 8.289135e-05 2.072284e-05 1.036142e-05
## [2756] 0.000000e+00 3.108426e-05 7.252993e-05 0.000000e+00 7.252993e-05
## [2761] 6.216851e-05 1.036142e-05 5.180710e-05 0.000000e+00 4.144568e-05
## [2766] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2771] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 2.072284e-05
## [2776] 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00 2.072284e-05
## [2781] 1.036142e-05 2.072284e-05 2.072284e-05 0.000000e+00 1.139756e-04
## [2786] 1.036142e-05 1.036142e-05 3.108426e-05 6.216851e-05 0.000000e+00
## [2791] 5.180710e-05 2.072284e-05 9.325277e-05 3.108426e-05 0.000000e+00
## [2796] 1.036142e-05 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [2801] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2806] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2811] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [2816] 0.000000e+00 1.036142e-05 7.252993e-05 1.036142e-05 0.000000e+00
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## [2826] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [2831] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2836] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [2841] 8.289135e-05 3.108426e-05 8.289135e-05 5.180710e-05 0.000000e+00
## [2846] 2.072284e-05 5.180710e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [2851] 5.180710e-05 1.036142e-05 9.325277e-05 1.450599e-04 4.144568e-05
## [2856] 1.036142e-05 0.000000e+00 7.252993e-05 3.108426e-05 1.036142e-05
## [2861] 4.144568e-05 2.072284e-05 0.000000e+00 2.072284e-05 1.036142e-05
## [2866] 2.072284e-05 1.036142e-05 4.144568e-05 2.072284e-05 6.216851e-05
## [2871] 6.216851e-05 1.346984e-04 5.180710e-05 5.180710e-05 0.000000e+00
## [2876] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
## [2881] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2886] 0.000000e+00 0.000000e+00 4.144568e-05 2.072284e-05 0.000000e+00
## [2891] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2896] 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05 3.108426e-05
## [2901] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.139756e-04
## [2906] 1.036142e-05 0.000000e+00 2.072284e-05 1.657827e-04 0.000000e+00
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## [2916] 0.000000e+00 2.072284e-05 2.072284e-05 4.144568e-05 0.000000e+00
## [2921] 0.000000e+00 6.216851e-05 1.036142e-05 3.108426e-05 6.216851e-05
## [2926] 6.216851e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [2931] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [2936] 1.036142e-05 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [2941] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [2951] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [2956] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [2961] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [2966] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

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## [4866] 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [4871] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [4876] 7.252993e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [4881] 7.252993e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [4886] 2.072284e-05 0.000000e+00 3.108426e-05 4.144568e-05 0.000000e+00
## [4891] 9.325277e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [4896] 2.072284e-05 8.289135e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [4901] 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [4906] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [4911] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [4916] 0.000000e+00 3.108426e-05 5.180710e-05 0.000000e+00 2.072284e-05
## [4921] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [4926] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [4931] 0.000000e+00 2.072284e-05 2.072284e-05 3.108426e-05 1.036142e-05
## [4936] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
## [4941] 0.000000e+00 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00
## [4946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [4951] 0.000000e+00 1.036142e-05 1.036142e-05 1.657827e-04 0.000000e+00
## [4956] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 1.036142e-05
## [4961] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 2.072284e-05
## [4966] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [4971] 0.000000e+00 3.108426e-05 2.072284e-05 3.108426e-05 0.000000e+00
## [4976] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [4981] 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [4986] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [4991] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [4996] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5001] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5006] 0.000000e+00 5.180710e-05 2.072284e-05 3.108426e-05 2.072284e-05
## [5011] 1.036142e-05 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [5016] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [5021] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [5026] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [5031] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05
## [5036] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5041] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5046] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 2.072284e-05
## [5051] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [5056] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5061] 3.108426e-05 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
## [5066] 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [5071] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [5076] 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00 4.144568e-05
## [5081] 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
## [5086] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [5091] 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [5096] 5.180710e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [5101] 0.000000e+00 1.036142e-05 2.072284e-05 2.072284e-05 1.036142e-05
## [5106] 5.180710e-05 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [5111] 3.108426e-05 1.036142e-05 1.036142e-05 2.072284e-05 3.108426e-05
## [5116] 6.216851e-05 0.000000e+00 4.144568e-05 6.216851e-05 0.000000e+00
## [5121] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5126] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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## [5131] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5136] 2.072284e-05 1.036142e-05 5.180710e-05 2.072284e-05 0.000000e+00
## [5141] 4.144568e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [5146] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [5151] 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5156] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [5161] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [5166] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 2.072284e-05
## [5171] 0.000000e+00 0.000000e+00 0.000000e+00 8.289135e-05 0.000000e+00
## [5176] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [5181] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5186] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [5191] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [5196] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5201] 2.072284e-05 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [5206] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5211] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [5216] 0.000000e+00 5.180710e-05 2.072284e-05 9.325277e-05 0.000000e+00
## [5221] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [5226] 0.000000e+00 5.180710e-05 1.036142e-05 3.108426e-05 8.289135e-05
## [5231] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5236] 2.072284e-05 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [5241] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5246] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5251] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [5256] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [5261] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5266] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5271] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5276] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5281] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5286] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5291] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [5296] 0.000000e+00 3.108426e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [5301] 2.072284e-05 0.000000e+00 2.072284e-05 5.180710e-05 0.000000e+00
## [5306] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5311] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [5316] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [5321] 2.072284e-05 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5326] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5331] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [5336] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [5341] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5346] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [5351] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [5356] 4.144568e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [5361] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5366] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5371] 7.252993e-05 0.000000e+00 9.325277e-05 0.000000e+00 0.000000e+00
## [5376] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5381] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5386] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [5391] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5396] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00

```

##	[5401]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[5406]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5411]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5416]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[5421]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5426]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5431]	0.000000e+00	2.072284e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[5436]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5441]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	1.036142e-05
##	[5446]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[5451]	2.072284e-05	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[5456]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5461]	3.108426e-05	0.000000e+00	3.108426e-05	0.000000e+00	2.072284e-05
##	[5466]	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00	3.108426e-05
##	[5471]	1.036142e-05	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[5476]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5481]	1.036142e-05	0.000000e+00	4.144568e-05	1.036142e-05	0.000000e+00
##	[5486]	0.000000e+00	0.000000e+00	1.036142e-05	4.144568e-05	0.000000e+00
##	[5491]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5496]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[5501]	0.000000e+00	6.216851e-05	0.000000e+00	1.036142e-05	0.000000e+00
##	[5506]	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00	3.108426e-05
##	[5511]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[5516]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	8.289135e-05
##	[5521]	2.072284e-05	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[5526]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5531]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5536]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5541]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5546]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5551]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5556]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5561]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5566]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5571]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[5576]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5581]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5586]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[5591]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[5596]	0.000000e+00	0.			

[illegible]

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## [5946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5951] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5956] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5961] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [5966] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5971] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [5986] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [5991] 0.000000e+00 0.000000e+00 1.139756e-04 1.554213e-04 1.036142e-04
## [5996] 1.554213e-04 8.289135e-05 1.036142e-04 7.252993e-05 1.450599e-04
## [6001] 2.797583e-04 1.554213e-04 1.036142e-05 4.144568e-05 3.626497e-04
## [6006] 1.139756e-04 5.180710e-05 4.144568e-05 0.000000e+00 2.072284e-05
## [6011] 5.180710e-05 6.216851e-05 0.000000e+00 1.036142e-05 4.144568e-05
## [6016] 6.216851e-05 2.072284e-05 6.216851e-05 2.072284e-05 0.000000e+00
## [6021] 1.865055e-04 1.450599e-04 3.108426e-05 3.419268e-04 1.139756e-04
## [6026] 2.072284e-05 8.289135e-05 4.144568e-05 0.000000e+00 1.036142e-05
## [6031] 8.289135e-05 5.387938e-04 1.346984e-04 9.325277e-05 4.144568e-05
## [6036] 2.175898e-04 2.072284e-05 0.000000e+00 4.144568e-05 4.144568e-05
## [6041] 4.144568e-05 0.000000e+00 0.000000e+00 8.289135e-05 4.144568e-05
## [6046] 0.000000e+00 1.036142e-05 3.108426e-05 2.072284e-05 0.000000e+00
## [6051] 6.216851e-05 7.252993e-05 0.000000e+00 2.072284e-04 3.315654e-04
## [6056] 4.040953e-04 3.315654e-04 2.901197e-04 7.252993e-05 9.325277e-05
## [6061] 1.139756e-04 5.180710e-05 1.036142e-05 1.346984e-04 1.139756e-04
## [6066] 6.216851e-05 4.144568e-05 1.036142e-05 1.243370e-04 8.289135e-05
## [6071] 8.289135e-05 2.072284e-05 5.180710e-05 3.108426e-05 5.180710e-05
## [6076] 1.036142e-05 0.000000e+00 1.761441e-04 4.144568e-05 9.325277e-05
## [6081] 1.346984e-04 1.450599e-04 1.450599e-04 1.346984e-04 9.325277e-05
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## [6091] 5.180710e-05 1.036142e-04 2.072284e-05 0.000000e+00 2.072284e-05
## [6096] 3.108426e-05 3.108426e-05 0.000000e+00 5.180710e-05 1.554213e-04
## [6101] 1.036142e-04 6.216851e-05 4.144568e-05 7.252993e-05 2.072284e-05
## [6106] 2.072284e-05 1.036142e-05 3.108426e-05 0.000000e+00 3.108426e-05
## [6111] 0.000000e+00 1.036142e-05 2.072284e-05 1.036142e-04 1.036142e-05
## [6116] 1.036142e-05 0.000000e+00 5.180710e-05 5.180710e-05 3.108426e-05
## [6121] 5.180710e-05 1.036142e-04 3.108426e-05 4.144568e-05 2.072284e-05
## [6126] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [6131] 9.325277e-05 8.289135e-05 2.797583e-04 1.346984e-04 1.657827e-04
## [6136] 1.243370e-04 1.865055e-04 3.108426e-05 0.000000e+00 5.180710e-05
## [6141] 1.139756e-04 6.216851e-05 6.216851e-05 1.036142e-04 7.252993e-05
## [6146] 3.108426e-05 2.383126e-04 7.252993e-05 2.072284e-05 2.383126e-04
## [6151] 5.180710e-05 3.108426e-05 5.180710e-05 5.180710e-05 0.000000e+00
## [6156] 0.000000e+00 2.072284e-05 3.108426e-05 1.036142e-05 1.036142e-05
## [6161] 2.175898e-04 1.036142e-05 0.000000e+00 4.144568e-05 3.108426e-05
## [6166] 1.346984e-04 8.289135e-05 1.139756e-04 0.000000e+00 2.693969e-04
## [6171] 1.657827e-04 6.216851e-05 0.000000e+00 2.072284e-05 8.289135e-05
## [6176] 7.252993e-05 8.289135e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [6181] 2.072284e-05 1.036142e-05 9.325277e-05 5.180710e-05 2.072284e-05
## [6186] 0.000000e+00 4.144568e-05 2.072284e-05 4.144568e-05 1.346984e-04
## [6191] 4.144568e-05 2.072284e-04 2.072284e-05 1.036142e-04 4.144568e-05
## [6196] 8.289135e-05 8.289135e-05 1.139756e-04 1.139756e-04 1.036142e-04
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## [6206] 0.000000e+00 3.108426e-05 1.450599e-04 5.180710e-05 6.216851e-05

```



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## [6211] 1.243370e-04 3.108426e-05 1.036142e-05 1.139756e-04 5.180710e-05
## [6216] 2.072284e-05 3.108426e-05 7.252993e-05 1.036142e-04 9.325277e-05
## [6221] 6.216851e-05 1.139756e-04 9.325277e-05 3.108426e-04 0.000000e+00
## [6226] 0.000000e+00 7.252993e-05 3.108426e-05 2.072284e-05 1.036142e-04
## [6231] 1.968670e-04 1.968670e-04 1.036142e-04 1.346984e-04 7.252993e-05
## [6236] 9.325277e-05 1.968670e-04 1.036142e-04 3.108426e-05 6.216851e-05
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## [6246] 9.325277e-05 1.036142e-05 2.072284e-05 0.000000e+00 7.252993e-05
## [6251] 1.139756e-04 1.036142e-05 7.252993e-05 6.216851e-05 1.346984e-04
## [6256] 2.072284e-04 3.004812e-04 6.216851e-05 3.108426e-05 2.072284e-05
## [6261] 3.108426e-05 6.216851e-05 2.072284e-05 8.289135e-05 4.144568e-05
## [6266] 0.000000e+00 0.000000e+00 2.279512e-04 7.252993e-05 7.252993e-05
## [6271] 1.761441e-04 6.216851e-05 3.108426e-05 9.325277e-05 1.243370e-04
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## [6281] 0.000000e+00 1.036142e-05 0.000000e+00 7.252993e-05 4.144568e-05
## [6286] 2.072284e-05 4.144568e-05 4.144568e-05 2.072284e-05 4.351796e-04
## [6291] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [6296] 8.289135e-05 5.180710e-05 1.450599e-04 7.252993e-05 7.252993e-05
## [6301] 5.284324e-04 4.144568e-05 3.108426e-05 6.216851e-05 0.000000e+00
## [6306] 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05 2.072284e-05
## [6311] 8.289135e-05 1.968670e-04 5.180710e-05 3.108426e-05 1.243370e-04
## [6316] 5.180710e-05 2.072284e-05 0.000000e+00 2.072284e-04 1.036142e-05
## [6321] 4.144568e-05 2.072284e-05 3.108426e-05 8.289135e-05 4.144568e-05
## [6326] 0.000000e+00 2.072284e-05 8.289135e-05 2.072284e-05 0.000000e+00
## [6331] 2.072284e-05 4.144568e-05 5.180710e-05 7.252993e-05 1.657827e-04
## [6336] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [6341] 1.036142e-04 1.243370e-04 1.657827e-04 1.036142e-05 7.252993e-05
## [6346] 2.072284e-05 6.216851e-05 8.289135e-05 7.252993e-05 0.000000e+00
## [6351] 6.216851e-05 2.072284e-05 2.072284e-05 2.072284e-05 1.036142e-05
## [6356] 3.108426e-05 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [6361] 0.000000e+00 0.000000e+00 3.108426e-05 4.144568e-05 4.144568e-05
## [6366] 1.657827e-04 2.072284e-05 8.289135e-05 0.000000e+00 6.216851e-05
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## [6381] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [6386] 0.000000e+00 4.144568e-05 2.072284e-05 8.289135e-05 0.000000e+00
## [6391] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [6396] 5.180710e-05 8.289135e-05 1.036142e-05 2.072284e-05 4.144568e-05
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## [6416] 0.000000e+00 1.036142e-05 1.036142e-05 9.325277e-05 0.000000e+00
## [6421] 2.072284e-05 2.072284e-05 1.036142e-05 1.139756e-04 1.036142e-05
## [6426] 4.144568e-05 1.346984e-04 3.108426e-05 1.036142e-05 0.000000e+00
## [6431] 4.144568e-05 4.144568e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [6436] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [6441] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [6446] 0.000000e+00 0.000000e+00 1.036142e-05 8.289135e-05 4.144568e-05
## [6451] 9.325277e-05 5.180710e-05 0.000000e+00 2.072284e-05 5.180710e-05
## [6456] 2.072284e-05 4.144568e-05 3.108426e-05 2.072284e-05 0.000000e+00
## [6461] 4.144568e-05 1.036142e-05 2.072284e-05 2.072284e-05 3.108426e-05
## [6466] 7.252993e-05 1.036142e-05 3.108426e-05 6.216851e-05 4.144568e-05
## [6471] 0.000000e+00 0.000000e+00 6.216851e-05 4.144568e-05 7.252993e-05
## [6476] 0.000000e+00 7.252993e-05 2.072284e-05 0.000000e+00 1.036142e-05

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## [6486] 1.036142e-05 1.036142e-05 6.216851e-05 0.000000e+00 5.180710e-05
## [6491] 1.139756e-04 7.252993e-05 1.657827e-04 4.144568e-05 8.289135e-05
## [6496] 0.000000e+00 7.252993e-05 2.072284e-05 1.036142e-05 5.180710e-05
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## [6506] 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [6511] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [6516] 6.216851e-05 1.036142e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [6521] 6.216851e-05 1.036142e-05 0.000000e+00 2.072284e-05 4.144568e-05
## [6526] 0.000000e+00 1.036142e-04 2.072284e-05 0.000000e+00 1.036142e-05
## [6531] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [6536] 1.036142e-05 1.036142e-05 3.108426e-05 1.139756e-04 1.036142e-04
## [6541] 2.072284e-04 7.252993e-05 6.216851e-05 4.144568e-05 3.108426e-05
## [6546] 9.325277e-05 1.450599e-04 8.289135e-05 5.180710e-05 1.036142e-05
## [6551] 4.144568e-05 5.180710e-05 2.072284e-05 0.000000e+00 2.486741e-04
## [6556] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [6561] 0.000000e+00 4.144568e-05 0.000000e+00 2.072284e-05 2.072284e-05
## [6566] 2.486741e-04 4.144568e-05 2.072284e-05 9.325277e-05 7.252993e-05
## [6571] 5.180710e-05 1.036142e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [6576] 0.000000e+00 2.072284e-05 0.000000e+00 6.216851e-05 2.693969e-04
## [6581] 1.554213e-04 0.000000e+00 2.383126e-04 5.180710e-05 0.000000e+00
## [6586] 0.000000e+00 5.180710e-05 2.383126e-04 2.072284e-05 2.072284e-05
## [6591] 0.000000e+00 4.144568e-05 4.144568e-05 3.108426e-05 4.144568e-05
## [6596] 8.289135e-05 1.346984e-04 4.144568e-05 1.450599e-04 8.289135e-05
## [6601] 9.325277e-05 1.139756e-04 6.216851e-05 1.036142e-05 4.144568e-05
## [6606] 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05 2.279512e-04
## [6611] 5.180710e-05 1.346984e-04 1.657827e-04 1.036142e-04 0.000000e+00
## [6616] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [6621] 1.139756e-04 0.000000e+00 2.072284e-05 5.180710e-05 2.072284e-05
## [6626] 5.180710e-05 0.000000e+00 1.761441e-04 1.554213e-04 3.108426e-05
## [6631] 6.216851e-05 1.243370e-04 8.289135e-05 9.325277e-05 1.036142e-05
## [6636] 4.144568e-05 2.072284e-05 1.243370e-04 8.289135e-05 5.180710e-05
## [6641] 2.072284e-05 9.325277e-05 4.144568e-05 4.144568e-05 1.243370e-04
## [6646] 6.216851e-05 1.036142e-05 9.325277e-05 8.289135e-05 2.072284e-05
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## [6661] 1.346984e-04 1.865055e-04 5.180710e-05 9.325277e-05 1.036142e-04
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## [6676] 1.036142e-04 7.252993e-05 4.144568e-05 8.289135e-05 2.072284e-05
## [6681] 7.252993e-05 4.144568e-05 5.180710e-05 2.486741e-04 9.325277e-05
## [6686] 4.144568e-05 5.180710e-05 6.216851e-05 2.072284e-04 1.346984e-04
## [6691] 2.072284e-05 6.216851e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [6696] 2.072284e-05 6.216851e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [6701] 0.000000e+00 2.072284e-05 4.559024e-04 2.797583e-04 1.761441e-04
## [6706] 2.072284e-04 5.180710e-05 8.289135e-05 0.000000e+00 0.000000e+00
## [6711] 1.657827e-04 1.761441e-04 2.072284e-05 1.139756e-04 0.000000e+00
## [6716] 2.072284e-05 0.000000e+00 1.036142e-05 3.108426e-05 4.144568e-05
## [6721] 3.108426e-05 0.000000e+00 0.000000e+00 4.144568e-05 9.325277e-05
## [6726] 0.000000e+00 8.289135e-05 2.590355e-04 2.693969e-04 3.004812e-04
## [6731] 5.180710e-05 4.144568e-05 6.216851e-05 4.144568e-05 0.000000e+00
## [6736] 3.108426e-05 1.036142e-05 5.180710e-05 0.000000e+00 2.072284e-05
## [6741] 0.000000e+00 0.000000e+00 1.243370e-04 6.216851e-05 3.108426e-05
## [6746] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05

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## [6756] 0.000000e+00 2.072284e-05 5.180710e-05 3.108426e-05 1.036142e-05
## [6761] 0.000000e+00 2.072284e-05 3.108426e-05 2.072284e-05 3.108426e-04
## [6766] 7.252993e-05 1.243370e-04 0.000000e+00 3.108426e-05 3.108426e-05
## [6771] 5.180710e-05 1.554213e-04 1.036142e-05 0.000000e+00 6.216851e-05
## [6776] 1.450599e-04 0.000000e+00 2.279512e-04 3.108426e-05 2.072284e-05
## [6781] 6.216851e-05 0.000000e+00 5.180710e-05 9.325277e-05 1.036142e-05
## [6786] 1.554213e-04 1.036142e-04 3.108426e-05 2.072284e-05 2.072284e-05
## [6791] 3.108426e-05 5.180710e-05 2.072284e-05 3.108426e-05 3.108426e-05
## [6796] 0.000000e+00 5.180710e-05 1.036142e-05 2.693969e-04 0.000000e+00
## [6801] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [6806] 1.036142e-05 1.036142e-05 0.000000e+00 1.036142e-05 2.175898e-04
## [6811] 2.072284e-05 1.036142e-05 3.108426e-05 5.180710e-05 7.252993e-05
## [6816] 5.180710e-05 4.144568e-05 5.180710e-05 0.000000e+00 1.036142e-05
## [6821] 1.036142e-04 5.180710e-05 2.072284e-05 4.144568e-05 3.108426e-05
## [6826] 5.180710e-05 4.144568e-05 2.175898e-04 2.072284e-05 3.108426e-05
## [6831] 1.036142e-05 8.289135e-05 1.036142e-05 0.000000e+00 2.072284e-05
## [6836] 7.252993e-05 0.000000e+00 5.180710e-05 5.180710e-05 3.108426e-05
## [6841] 7.252993e-05 5.180710e-05 8.289135e-05 3.108426e-05 4.144568e-05
## [6846] 0.000000e+00 4.144568e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [6851] 6.216851e-05 2.072284e-05 1.036142e-04 6.216851e-05 1.036142e-04
## [6856] 1.968670e-04 2.072284e-05 6.216851e-05 7.252993e-05 6.216851e-05
## [6861] 5.180710e-05 4.144568e-05 1.243370e-04 0.000000e+00 2.383126e-04
## [6866] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6871] 4.144568e-05 1.139756e-04 6.216851e-05 1.139756e-04 1.761441e-04
## [6876] 2.072284e-04 9.325277e-05 3.108426e-05 1.036142e-05 1.036142e-04
## [6881] 3.108426e-05 0.000000e+00 1.036142e-05 2.072284e-05 1.139756e-04
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## [6896] 1.036142e-05 0.000000e+00 0.000000e+00 3.419268e-04 2.175898e-04
## [6901] 2.175898e-04 0.000000e+00 0.000000e+00 4.144568e-05 1.657827e-04
## [6906] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6911] 3.108426e-05 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [6916] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6921] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6926] 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00
## [6931] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6936] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [6941] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6951] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6956] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [6961] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 2.072284e-05
## [6966] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [6971] 0.000000e+00 2.072284e-05 1.036142e-05 3.108426e-05 0.000000e+00
## [6976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6981] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [6986] 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [6991] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [6996] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [7001] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [7006] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [7011] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05
## [7016] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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##	[7026]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	2.072284e-05
##	[7031]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7036]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	2.072284e-05
##	[7041]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	1.036142e-05
##	[7046]	3.108426e-05	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[7051]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[7056]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[7061]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7066]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7071]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7076]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7081]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[7086]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[7091]	0.000000e+00	3.108426e-05	0.000000e+00	5.180710e-05	0.000000e+00
##	[7096]	0.000000e+00	3.108426e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[7101]	0.000000e+00	0.000000e+00	2.072284e-05	3.108426e-05	0.000000e+00
##	[7106]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7111]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[7116]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[7121]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7126]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7131]	0.000000e+00	2.072284e-05	0.000000e+00	2.072284e-05	0.000000e+00
##	[7136]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7141]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7146]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7151]	2.072284e-05	4.144568e-05	3.108426e-05	1.036142e-05	4.144568e-05
##	[7156]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[7161]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[7166]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[7171]	0.000000e+00	3.108426e-05	0.000000e+00	5.180710e-05	0.000000e+00
##	[7176]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[7181]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7186]	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[7191]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[7196]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7201]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[7206]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[7211]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[7216]	0.000000e+00	0.			

##	[7291]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[7296]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7301]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[7306]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[7311]	0.000000e+00	3.108426e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[7316]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7321]	0.000000e+00	1.036142e-05	3.108426e-05	0.000000e+00	0.000000e+00
##	[7326]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7331]	6.216851e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7336]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7341]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[7346]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7351]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7356]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7361]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[7366]	0.000000e+00	4.144568e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[7371]	0.000000e+00	5.180710e-05	1.036142e-05	0.000000e+00	2.072284e-05
##	[7376]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[7381]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7386]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7391]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7396]	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[7401]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[7406]	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00
##	[7411]	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00
##	[7416]	0.000000e+00	0.000000e+00	2.072284e-05	1.036142e-05	0.000000e+00
##	[7421]	0.000000e+00	0.000000e+00	3.108426e-05	1.036142e-05	0.000000e+00
##	[7426]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7431]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7436]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7441]	2.072284e-05	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[7446]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7451]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7456]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7461]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7466]	0.000000e+00	2.072284e-05	0.000000e+00	3.108426e-05	0.000000e+00
##	[7471]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[7476]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[7481]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[7486]	0.000000e+00	0.			

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## [7566] 3.108426e-05 4.144568e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [7571] 0.000000e+00 9.325277e-05 9.325277e-05 1.139756e-04 9.325277e-05
## [7576] 3.108426e-05 1.139756e-04 1.036142e-04 1.968670e-04 0.000000e+00
## [7581] 1.346984e-04 0.000000e+00 1.139756e-04 2.486741e-04 5.180710e-05
## [7586] 1.036142e-05 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [7591] 1.036142e-05 1.036142e-05 2.072284e-05 3.108426e-05 1.450599e-04
## [7596] 1.450599e-04 5.180710e-05 1.036142e-04 0.000000e+00 0.000000e+00
## [7601] 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [7606] 5.180710e-05 6.216851e-05 4.144568e-05 2.072284e-05 7.252993e-05
## [7611] 7.252993e-05 1.657827e-04 1.036142e-04 1.450599e-04 7.252993e-05
## [7616] 0.000000e+00 5.180710e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [7621] 1.036142e-05 2.072284e-05 0.000000e+00 1.036142e-05 1.036142e-05
## [7626] 3.108426e-05 3.108426e-05 0.000000e+00 2.072284e-05 2.072284e-05
## [7631] 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [7636] 1.139756e-04 1.761441e-04 4.144568e-05 0.000000e+00 4.144568e-05
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## [7646] 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05 3.108426e-05
## [7651] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05
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## [7661] 6.216851e-05 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [7666] 3.108426e-05 0.000000e+00 6.216851e-05 1.036142e-05 1.036142e-05
## [7671] 0.000000e+00 7.252993e-05 2.072284e-05 5.180710e-05 6.216851e-05
## [7676] 9.325277e-05 1.243370e-04 1.450599e-04 7.252993e-05 3.108426e-05
## [7681] 0.000000e+00 3.108426e-05 1.036142e-05 2.072284e-05 1.036142e-05
## [7686] 1.036142e-04 6.216851e-05 2.072284e-05 1.036142e-05 7.252993e-05
## [7691] 7.252993e-05 0.000000e+00 2.072284e-05 5.180710e-05 3.108426e-05
## [7696] 4.144568e-05 9.325277e-05 0.000000e+00 2.072284e-05 6.216851e-05
## [7701] 3.108426e-05 2.072284e-05 9.325277e-05 0.000000e+00 9.325277e-05
## [7706] 1.036142e-05 3.108426e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [7711] 1.036142e-05 1.243370e-04 7.252993e-05 2.072284e-05 2.072284e-05
## [7716] 2.072284e-05 1.243370e-04 2.072284e-05 0.000000e+00 8.289135e-05
## [7721] 4.144568e-05 1.036142e-05 1.139756e-04 5.180710e-05 4.144568e-05
## [7726] 1.865055e-04 7.252993e-05 6.216851e-05 1.036142e-05 5.180710e-05
## [7731] 6.216851e-05 3.108426e-05 6.216851e-05 1.036142e-05 6.216851e-05
## [7736] 5.180710e-05 9.325277e-05 6.216851e-05 0.000000e+00 1.036142e-05
## [7741] 5.180710e-05 0.000000e+00 0.000000e+00 1.036142e-05 6.216851e-05
## [7746] 2.072284e-05 7.252993e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [7751] 3.108426e-05 1.036142e-05 5.180710e-05 1.036142e-05 4.144568e-05
## [7756] 0.000000e+00 3.108426e-05 5.180710e-05 0.000000e+00 2.072284e-05
## [7761] 1.036142e-05 0.000000e+00 5.180710e-05 9.325277e-05 2.072284e-05
## [7766] 0.000000e+00 1.865055e-04 1.036142e-05 1.139756e-04 5.180710e-05
## [7771] 7.252993e-05 7.252993e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [7776] 0.000000e+00 0.000000e+00 0.000000e+00 1.243370e-04 5.180710e-05
## [7781] 1.036142e-05 6.216851e-05 2.072284e-05 1.036142e-04 2.383126e-04
## [7786] 1.036142e-05 5.180710e-05 1.554213e-04 3.108426e-05 1.036142e-04
## [7791] 7.252993e-05 9.325277e-05 2.590355e-04 3.108426e-05 1.036142e-05
## [7796] 5.180710e-05 4.144568e-05 7.252993e-05 1.036142e-05 3.108426e-05
## [7801] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [7806] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [7811] 4.144568e-05 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [7816] 3.108426e-05 3.108426e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [7821] 4.144568e-05 7.252993e-05 1.346984e-04 1.036142e-05 1.036142e-05
## [7826] 5.180710e-05 0.000000e+00 3.108426e-05 1.657827e-04 1.139756e-04

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## [7831] 1.450599e-04 2.901197e-04 0.000000e+00 4.144568e-05 1.139756e-04
## [7836] 2.072284e-05 3.108426e-05 1.554213e-04 1.036142e-05 1.036142e-05
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## [7871] 6.216851e-05 3.108426e-05 1.036142e-04 2.072284e-05 0.000000e+00
## [7876] 5.180710e-05 8.289135e-05 3.108426e-05 2.072284e-05 7.252993e-05
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## [7916] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 1.036142e-05
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## [7926] 0.000000e+00 7.252993e-05 4.144568e-05 3.108426e-05 8.289135e-05
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## [7936] 0.000000e+00 0.000000e+00 4.144568e-05 1.865055e-04 8.289135e-05
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## [12686] 2.072284e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00

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## [14686] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
## [14691] 6.216851e-05 8.289135e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [14696] 2.072284e-05 4.144568e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [14701] 7.252993e-05 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [14706] 3.108426e-05 2.072284e-05 7.252993e-05 4.144568e-05 4.144568e-05
## [14711] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14716] 8.289135e-05 3.108426e-05 1.036142e-05 6.216851e-05 1.036142e-05
## [14721] 0.000000e+00 2.072284e-05 7.252993e-05 3.108426e-05 2.072284e-05
## [14726] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [14731] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [14736] 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05 5.180710e-05
## [14741] 2.072284e-05 1.036142e-05 1.036142e-05 1.036142e-04 0.000000e+00
## [14746] 5.180710e-05 0.000000e+00 0.000000e+00 2.072284e-05 8.289135e-05
## [14751] 4.144568e-05 1.036142e-05 4.144568e-05 4.144568e-05 7.252993e-05
## [14756] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [14761] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 5.180710e-05
## [14766] 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05 1.036142e-05
## [14771] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [14776] 0.000000e+00 0.000000e+00 7.252993e-05 3.108426e-05 1.036142e-05
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## [14786] 0.000000e+00 0.000000e+00 3.108426e-05 5.180710e-05 0.000000e+00
## [14791] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [14796] 8.289135e-05 2.072284e-05 7.252993e-05 0.000000e+00 0.000000e+00
## [14801] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05
## [14806] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14811] 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [14816] 0.000000e+00 0.000000e+00 5.180710e-05 1.036142e-05 3.108426e-05
## [14821] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [14826] 0.000000e+00 1.036142e-05 0.000000e+00 5.180710e-05 0.000000e+00
## [14831] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [14836] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [14841] 2.072284e-05 0.000000e+00 2.072284e-05 5.180710e-05 3.108426e-05
## [14846] 3.108426e-05 4.144568e-05 1.036142e-05 2.072284e-05 0.000000e+00

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## [14851] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14856] 0.000000e+00 3.108426e-05 1.036142e-05 3.108426e-05 0.000000e+00
## [14861] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [14866] 4.144568e-05 4.144568e-05 1.243370e-04 5.180710e-05 6.216851e-05
## [14871] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14876] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [14881] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [14886] 0.000000e+00 1.036142e-05 5.180710e-05 3.108426e-05 5.180710e-05
## [14891] 3.108426e-05 0.000000e+00 0.000000e+00 1.554213e-04 0.000000e+00
## [14896] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [14901] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [14906] 2.072284e-05 3.108426e-05 1.036142e-05 7.252993e-05 6.216851e-05
## [14911] 1.036142e-05 0.000000e+00 3.108426e-05 1.036142e-05 6.216851e-05
## [14916] 1.036142e-05 1.036142e-05 2.072284e-05 0.000000e+00 7.252993e-05
## [14921] 7.252993e-05 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [14926] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14931] 4.144568e-05 3.108426e-05 2.072284e-05 3.108426e-05 0.000000e+00
## [14936] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [14941] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14946] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [14951] 3.108426e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [14966] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [14971] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [14976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [14981] 4.144568e-05 3.108426e-05 1.036142e-05 1.036142e-05 1.036142e-05
## [14986] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [15006] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15011] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15016] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [15021] 1.036142e-05 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [15026] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15031] 0.000000e+00 8.289135e-05 2.072284e-05 0.000000e+00 2.072284e-05
## [15036] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [15041] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15046] 5.180710e-05 2.072284e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [15051] 0.000000e+00 1.036142e-05 2.072284e-05 3.108426e-05 1.036142e-05
## [15056] 2.072284e-05 2.072284e-05 9.325277e-05 3.108426e-05 0.000000e+00
## [15061] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15066] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [15071] 4.144568e-05 6.216851e-05 4.144568e-05 7.252993e-05 3.108426e-05
## [15076] 1.036142e-05 1.036142e-04 1.036142e-05 1.036142e-05 1.036142e-05
## [15081] 1.036142e-05 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
## [15086] 4.144568e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15091] 1.036142e-04 2.175898e-04 1.139756e-04 8.289135e-05 6.216851e-05
## [15096] 5.180710e-05 2.072284e-05 2.072284e-05 2.072284e-05 0.000000e+00
## [15101] 8.289135e-05 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [15106] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [15111] 1.036142e-05 3.108426e-05 4.144568e-05 1.036142e-05 1.036142e-05
## [15116] 2.072284e-05 0.000000e+00 5.180710e-05 0.000000e+00 1.036142e-04

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## [15121] 1.036142e-04 9.325277e-05 1.036142e-05 1.243370e-04 0.000000e+00
## [15126] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15131] 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [15136] 7.252993e-05 3.108426e-05 3.108426e-05 3.108426e-05 2.072284e-05
## [15141] 3.108426e-05 0.000000e+00 6.216851e-05 0.000000e+00 1.346984e-04
## [15146] 0.000000e+00 3.108426e-05 0.000000e+00 3.108426e-05 3.108426e-05
## [15151] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15156] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15161] 1.036142e-05 3.108426e-05 8.289135e-05 5.180710e-05 0.000000e+00
## [15166] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15171] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15176] 0.000000e+00 0.000000e+00 6.216851e-05 2.072284e-05 0.000000e+00
## [15181] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15186] 0.000000e+00 0.000000e+00 1.346984e-04 2.072284e-05 2.072284e-05
## [15191] 3.108426e-05 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05
## [15196] 1.036142e-05 4.144568e-05 1.036142e-04 1.243370e-04 4.144568e-05
## [15201] 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [15206] 0.000000e+00 1.036142e-05 4.144568e-05 5.180710e-05 0.000000e+00
## [15211] 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00
## [15216] 0.000000e+00 1.036142e-05 2.072284e-05 4.144568e-05 0.000000e+00
## [15221] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [15226] 0.000000e+00 8.289135e-05 4.144568e-05 6.216851e-05 6.216851e-05
## [15231] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15236] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 2.175898e-04
## [15241] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [15246] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15251] 6.216851e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [15256] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05
## [15261] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 2.072284e-05
## [15266] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [15271] 6.216851e-05 1.036142e-05 7.252993e-05 0.000000e+00 0.000000e+00
## [15276] 0.000000e+00 2.072284e-05 8.289135e-05 8.289135e-05 1.036142e-05
## [15281] 4.144568e-05 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-04
## [15286] 8.289135e-05 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
## [15291] 6.216851e-05 6.216851e-05 2.072284e-05 5.180710e-05 4.144568e-05
## [15296] 5.180710e-05 1.036142e-05 4.144568e-05 7.252993e-05 2.072284e-05
## [15301] 2.072284e-05 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [15306] 9.325277e-05 7.252993e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [15311] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [15316] 0.000000e+00 1.761441e-04 0.000000e+00 0.000000e+00 0.000000e+00
## [15321] 0.000000e+00 1.036142e-05 8.289135e-05 0.000000e+00 0.000000e+00
## [15326] 6.216851e-05 2.072284e-05 7.252993e-05 0.000000e+00 0.000000e+00
## [15331] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [15336] 2.072284e-05 0.000000e+00 2.072284e-05 2.383126e-04 8.289135e-05
## [15341] 2.072284e-05 6.216851e-05 1.036142e-05 8.289135e-05 3.108426e-05
## [15346] 0.000000e+00 4.144568e-05 3.108426e-05 2.072284e-05 3.108426e-05
## [15351] 5.180710e-05 4.144568e-05 4.144568e-05 5.180710e-05 0.000000e+00
## [15356] 0.000000e+00 0.000000e+00 1.036142e-05 6.216851e-05 0.000000e+00
## [15361] 3.108426e-05 0.000000e+00 2.072284e-05 2.072284e-05 1.036142e-05
## [15366] 1.036142e-05 5.180710e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [15371] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [15376] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [15381] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [15386] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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##	[15391]	0.000000e+00	1.036142e-05	5.180710e-05	2.072284e-05	2.072284e-05
##	[15396]	1.036142e-05	0.000000e+00	2.072284e-05	1.036142e-05	4.144568e-05
##	[15401]	3.108426e-05	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[15406]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[15411]	7.252993e-05	4.144568e-05	0.000000e+00	0.000000e+00	1.036142e-05
##	[15416]	3.108426e-05	1.036142e-05	5.180710e-05	0.000000e+00	0.000000e+00
##	[15421]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[15426]	0.000000e+00	2.072284e-05	3.108426e-05	1.036142e-05	0.000000e+00
##	[15431]	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[15436]	3.108426e-05	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[15441]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[15446]	2.072284e-05	0.000000e+00	1.036142e-05	5.180710e-05	2.072284e-05
##	[15451]	8.289135e-05	7.252993e-05	4.144568e-05	2.072284e-05	1.036142e-05
##	[15456]	9.325277e-05	0.000000e+00	5.180710e-05	0.000000e+00	0.000000e+00
##	[15461]	0.000000e+00	5.180710e-05	0.000000e+00	0.000000e+00	2.072284e-05
##	[15466]	6.216851e-05	5.180710e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[15471]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	1.139756e-04
##	[15476]	3.108426e-05	4.144568e-05	0.000000e+00	3.108426e-05	4.144568e-05
##	[15481]	2.072284e-05	2.072284e-05	5.180710e-05	2.072284e-05	0.000000e+00
##	[15486]	3.108426e-05	2.072284e-05	2.072284e-05	0.000000e+00	0.000000e+00
##	[15491]	0.000000e+00	3.108426e-05	2.072284e-05	0.000000e+00	0.000000e+00
##	[15496]	1.036142e-05	2.072284e-05	3.108426e-05	0.000000e+00	0.000000e+00
##	[15501]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	7.252993e-05
##	[15506]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15511]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15516]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15521]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15526]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15531]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15536]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15541]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15546]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15551]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15556]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15561]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15566]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15571]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15576]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[15581]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

[illegible]

[illegible]

##	[16201]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16206]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16211]	6.216851e-05	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16216]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16221]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16226]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16231]	0.000000e+00	2.072284e-05	1.036142e-05	2.072284e-05	0.000000e+00
##	[16236]	1.036142e-05	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[16241]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16246]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16251]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16256]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[16261]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16266]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[16271]	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16276]	0.000000e+00	6.216851e-05	1.036142e-05	1.036142e-05	0.000000e+00
##	[16281]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[16286]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16291]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16296]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16301]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16306]	0.000000e+00	2.072284e-05	2.072284e-05	0.000000e+00	1.036142e-05
##	[16311]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16316]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16321]	1.036142e-05	0.000000e+00	0.000000e+00	3.108426e-05	2.072284e-05
##	[16326]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16331]	0.000000e+00	4.144568e-05	2.072284e-05	0.000000e+00	0.000000e+00
##	[16336]	0.000000e+00	1.036142e-05	0.000000e+00	1.036142e-05	0.000000e+00
##	[16341]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16346]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16351]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16356]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16361]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16366]	3.108426e-05	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[16371]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16376]	2.072284e-05	0.000000e+00	1.036142e-05	0.000000e+00	3.108426e-05
##	[16381]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16386]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16391]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

[illegible]

##	[16741]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16746]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16751]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16756]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16761]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16766]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16771]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	1.036142e-05
##	[16776]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16781]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16786]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16791]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16796]	0.000000e+00	0.000000e+00	5.180710e-05	0.000000e+00	0.000000e+00
##	[16801]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16806]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16811]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	3.108426e-05
##	[16816]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16821]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16826]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16831]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05
##	[16836]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16841]	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16846]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16851]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	1.036142e-05
##	[16856]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[16861]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16866]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	1.036142e-05
##	[16871]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16876]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16881]	4.144568e-05	3.108426e-05	0.000000e+00	0.000000e+00	4.144568e-05
##	[16886]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[16891]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16896]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16901]	0.000000e+00	4.144568e-05	0.000000e+00	1.036142e-05	0.000000e+00
##	[16906]	0.000000e+00	1.036142e-05	4.144568e-05	0.000000e+00	0.000000e+00
##	[16911]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16916]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16921]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[16926]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[16931]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00



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## [17011] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [17016] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17021] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17026] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17031] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [17036] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [17041] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [17046] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [17051] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [17066] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17071] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
## [17076] 5.180710e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [17081] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17086] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00
## [17091] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [17096] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17101] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17106] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17111] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [17116] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17121] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17126] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [17131] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17136] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [17141] 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00 0.000000e+00
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## [17151] 0.000000e+00 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [17156] 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [17161] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [17166] 0.000000e+00 5.180710e-05 0.000000e+00 1.036142e-05 2.072284e-05
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## [17176] 0.000000e+00 4.144568e-05 4.144568e-05 1.036142e-05 0.000000e+00
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## [17186] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [17191] 0.000000e+00 4.144568e-05 8.289135e-05 0.000000e+00 0.000000e+00
## [17196] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17201] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [17221] 0.000000e+00 1.036142e-05 6.216851e-05 2.072284e-05 4.144568e-05
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## [17231] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 3.108426e-05
## [17236] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [17241] 5.180710e-05 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [17246] 0.000000e+00 4.144568e-05 0.000000e+00 4.144568e-05 5.180710e-05
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## [17266] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [17271] 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05 0.000000e+00
## [17276] 5.180710e-05 1.036142e-05 1.036142e-05 5.180710e-05 0.000000e+00

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## [17286] 0.000000e+00 2.901197e-04 0.000000e+00 0.000000e+00 1.036142e-05
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## [17301] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 9.325277e-05
## [17306] 6.216851e-05 8.289135e-05 3.108426e-05 2.072284e-05 0.000000e+00
## [17311] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [17316] 1.036142e-05 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [17321] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [17336] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [17341] 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00 6.216851e-05
## [17346] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 2.072284e-05
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## [17371] 1.139756e-04 2.072284e-05 3.108426e-05 0.000000e+00 3.108426e-05
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## [17381] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17386] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17391] 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05 1.036142e-05
## [17396] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 3.108426e-05
## [17401] 0.000000e+00 5.180710e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [17406] 0.000000e+00 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [17411] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [17416] 3.108426e-05 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [17421] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17426] 0.000000e+00 6.216851e-05 1.036142e-05 3.108426e-05 7.252993e-05
## [17431] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [17436] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 6.216851e-05
## [17441] 0.000000e+00 1.036142e-05 3.108426e-05 4.144568e-05 5.180710e-05
## [17446] 0.000000e+00 1.036142e-05 2.072284e-05 4.144568e-05 4.144568e-05
## [17451] 1.036142e-05 2.072284e-05 3.108426e-05 0.000000e+00 1.036142e-05
## [17456] 0.000000e+00 9.325277e-05 0.000000e+00 5.180710e-05 2.072284e-05
## [17461] 0.000000e+00 3.108426e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [17466] 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05 2.072284e-05
## [17471] 2.072284e-05 1.036142e-05 7.252993e-05 0.000000e+00 4.144568e-05
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## [17481] 2.072284e-05 1.036142e-05 1.036142e-05 9.325277e-05 0.000000e+00
## [17486] 5.180710e-05 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
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## [17506] 4.144568e-05 2.072284e-05 1.036142e-04 0.000000e+00 1.036142e-05
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## [17521] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [17526] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [17531] 0.000000e+00 0.000000e+00 3.108426e-05 4.144568e-05 0.000000e+00
## [17536] 0.000000e+00 0.000000e+00 1.036142e-04 5.180710e-05 0.000000e+00
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## [17546] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 1.036142e-05

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## [17561] 0.000000e+00 1.346984e-04 0.000000e+00 3.108426e-05 0.000000e+00
## [17566] 0.000000e+00 1.036142e-05 0.000000e+00 8.289135e-05 2.072284e-05
## [17571] 2.072284e-05 0.000000e+00 1.036142e-05 2.072284e-05 2.072284e-05
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## [17586] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-04
## [17591] 3.108426e-05 2.072284e-05 0.000000e+00 8.289135e-05 0.000000e+00
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## [17621] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [17626] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 5.180710e-05
## [17631] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [19566] 3.108426e-05 1.036142e-05 0.000000e+00 4.144568e-05 6.216851e-05
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## [19721] 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [20531] 0.000000e+00 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
## [20536] 3.108426e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [20541] 1.036142e-05 8.289135e-05 1.036142e-04 5.180710e-05 0.000000e+00
## [20546] 0.000000e+00 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00
## [20551] 0.000000e+00 1.036142e-05 5.180710e-05 5.180710e-05 7.252993e-05
## [20556] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05
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## [20581] 1.139756e-04 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [20586] 5.180710e-05 1.036142e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [20591] 1.865055e-04 1.243370e-04 3.108426e-05 2.072284e-05 7.252993e-05
## [20596] 1.036142e-04 8.289135e-05 2.072284e-05 1.554213e-04 0.000000e+00
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## [20611] 1.036142e-05 1.243370e-04 1.657827e-04 1.036142e-04 3.108426e-05
## [20616] 3.108426e-05 6.216851e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [20626] 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00 4.144568e-05
## [20631] 2.072284e-05 5.180710e-05 5.180710e-05 5.180710e-05 1.036142e-05
## [20636] 6.216851e-05 7.252993e-05 1.036142e-05 8.289135e-05 2.072284e-05
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## [20716] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 4.144568e-05
## [20721] 6.216851e-05 0.000000e+00 3.108426e-05 3.108426e-05 1.036142e-05
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## [20736] 0.000000e+00 0.000000e+00 6.216851e-05 3.108426e-05 4.144568e-05
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## [20756] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05
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## [20766] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [20771] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [20776] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [20781] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [20786] 0.000000e+00 1.036142e-05 1.036142e-05 2.072284e-05 0.000000e+00

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## [20806] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [20811] 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00
## [20816] 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [20821] 0.000000e+00 5.180710e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [20826] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [20831] 5.180710e-05 2.072284e-05 1.036142e-04 0.000000e+00 3.108426e-05
## [20836] 0.000000e+00 0.000000e+00 4.144568e-05 3.108426e-05 1.036142e-04
## [20841] 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00 5.180710e-05
## [20846] 1.036142e-05 3.108426e-05 5.180710e-05 7.252993e-05 0.000000e+00
## [20851] 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05
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## [20886] 0.000000e+00 6.216851e-05 4.144568e-05 0.000000e+00 0.000000e+00
## [20891] 6.216851e-05 6.216851e-05 2.072284e-05 2.072284e-05 0.000000e+00
## [20896] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [20911] 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05 1.968670e-04
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## [20921] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [20926] 7.252993e-05 2.072284e-05 1.036142e-04 5.180710e-05 1.139756e-04
## [20931] 5.180710e-05 8.289135e-05 3.108426e-05 0.000000e+00 1.036142e-05
## [20936] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 2.072284e-05
## [20941] 5.180710e-05 0.000000e+00 6.216851e-05 4.144568e-05 1.761441e-04
## [20946] 2.072284e-05 4.144568e-05 1.243370e-04 7.252993e-05 6.216851e-05
## [20951] 3.108426e-05 2.072284e-05 1.450599e-04 1.243370e-04 9.325277e-05
## [20956] 3.212040e-04 1.036142e-04 3.937339e-04 3.522883e-04 2.072284e-04
## [20961] 6.216851e-05 1.346984e-04 1.243370e-04 9.325277e-05 6.216851e-05
## [20966] 9.325277e-05 2.175898e-04 6.216851e-05 8.289135e-05 2.072284e-05
## [20971] 4.144568e-05 6.216851e-05 1.036142e-04 3.108426e-05 1.761441e-04
## [20976] 1.865055e-04 3.108426e-05 6.216851e-05 3.108426e-05 2.072284e-05
## [20981] 5.180710e-05 6.216851e-05 0.000000e+00 1.865055e-04 2.590355e-04
## [20986] 1.346984e-04 1.346984e-04 1.036142e-04 1.450599e-04 0.000000e+00
## [20991] 3.108426e-05 0.000000e+00 1.036142e-05 1.036142e-05 1.968670e-04
## [20996] 1.450599e-04 2.072284e-05 1.657827e-04 3.212040e-04 9.325277e-05
## [21001] 2.383126e-04 5.180710e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [21006] 0.000000e+00 8.289135e-05 3.004812e-04 4.351796e-04 4.973481e-04
## [21011] 4.144568e-05 3.108426e-04 9.325277e-05 2.072284e-04 7.252993e-05
## [21016] 1.657827e-04 3.108426e-05 9.325277e-05 1.761441e-04 8.289135e-05
## [21021] 3.108426e-04 4.248182e-04 2.072284e-04 3.212040e-04 2.175898e-04
## [21026] 1.450599e-04 7.252993e-05 4.144568e-05 1.036142e-05 3.108426e-05
## [21031] 1.243370e-04 7.252993e-05 6.216851e-05 0.000000e+00 2.072284e-05
## [21036] 2.072284e-05 4.144568e-05 2.693969e-04 3.108426e-05 1.139756e-04
## [21041] 1.036142e-05 0.000000e+00 1.968670e-04 6.216851e-05 1.346984e-04
## [21046] 2.072284e-04 2.901197e-04 3.108426e-05 1.554213e-04 2.693969e-04
## [21051] 7.252993e-05 1.761441e-04 0.000000e+00 1.036142e-05 5.180710e-05
## [21056] 5.180710e-05 1.036142e-05 2.590355e-04 2.693969e-04 1.346984e-04

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##	[21061]	8.289135e-05	8.289135e-05	1.346984e-04	1.139756e-04	5.180710e-05
##	[21066]	1.554213e-04	2.901197e-04	1.657827e-04	6.216851e-05	1.554213e-04
##	[21071]	1.554213e-04	6.424080e-04	6.009623e-04	2.590355e-04	3.108426e-05
##	[21076]	0.000000e+00	2.072284e-05	7.252993e-05	1.036142e-05	1.036142e-05
##	[21081]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[21086]	4.144568e-05	0.000000e+00	2.072284e-05	1.036142e-05	4.144568e-05
##	[21091]	6.216851e-05	8.289135e-05	1.346984e-04	8.289135e-05	8.289135e-05
##	[21096]	4.248182e-04	1.865055e-04	6.216851e-05	1.243370e-04	9.325277e-05
##	[21101]	3.004812e-04	6.216851e-05	3.108426e-05	8.289135e-05	8.289135e-05
##	[21106]	3.108426e-04	4.351796e-04	1.346984e-04	0.000000e+00	0.000000e+00
##	[21111]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21116]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21121]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21126]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21131]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21136]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21141]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21146]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21151]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21156]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[21161]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21166]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21171]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21176]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21181]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21186]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21191]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21196]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21201]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21206]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21211]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21216]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[21221]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21226]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21231]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21236]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21241]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21246]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[21251]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00



[illegible]

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## [21601] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [21606] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21611] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21616] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21621] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [21626] 5.180710e-05 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [21631] 0.000000e+00 2.072284e-05 0.000000e+00 9.325277e-05 6.216851e-05
## [21636] 5.180710e-05 1.036142e-05 0.000000e+00 1.036142e-05 3.108426e-05
## [21641] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21646] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [21651] 1.346984e-04 3.108426e-05 2.072284e-05 0.000000e+00 5.180710e-05
## [21656] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [21661] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21666] 1.036142e-05 5.180710e-05 8.289135e-05 0.000000e+00 5.180710e-05
## [21671] 3.108426e-05 6.216851e-05 4.144568e-05 3.108426e-05 1.243370e-04
## [21676] 1.450599e-04 3.108426e-05 1.346984e-04 2.072284e-05 1.036142e-05
## [21681] 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [21686] 3.108426e-05 6.216851e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [21691] 4.144568e-05 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [21696] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [21701] 0.000000e+00 1.036142e-05 2.072284e-05 4.144568e-05 0.000000e+00
## [21706] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [21711] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [21716] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [21721] 0.000000e+00 2.072284e-05 0.000000e+00 5.180710e-05 2.072284e-05
## [21726] 8.289135e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21731] 1.036142e-05 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [21736] 0.000000e+00 1.036142e-05 1.036142e-05 3.108426e-05 0.000000e+00
## [21741] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21746] 4.144568e-05 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
## [21751] 7.252993e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [21756] 0.000000e+00 4.144568e-05 2.072284e-05 0.000000e+00 1.036142e-05
## [21761] 8.289135e-05 0.000000e+00 2.072284e-05 2.072284e-05 6.216851e-05
## [21766] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [21771] 1.036142e-05 2.072284e-05 9.325277e-05 0.000000e+00 1.036142e-05
## [21776] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 6.216851e-05
## [21781] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [21786] 3.108426e-05 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [21791] 0.000000e+00 4.144568e-05 0.000000e+00 4.144568e-05 1.036142e-05
## [21796] 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [21801] 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
## [21806] 0.000000e+00 1.036142e-05 0.000000e+00 5.180710e-05 0.000000e+00
## [21811] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05
## [21816] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [21821] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 1.243370e-04
## [21826] 6.216851e-05 1.036142e-04 3.108426e-05 2.072284e-05 6.216851e-05
## [21831] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [21841] 2.072284e-05 0.000000e+00 0.000000e+00 1.450599e-04 1.036142e-05
## [21846] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [21851] 0.000000e+00 0.000000e+00 1.036142e-05 5.180710e-05 1.036142e-05
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## [21886] 0.000000e+00 0.000000e+00 1.036142e-04 0.000000e+00 0.000000e+00
## [21891] 0.000000e+00 4.144568e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [21896] 7.252993e-05 0.000000e+00 4.144568e-05 1.036142e-05 6.216851e-05
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## [21906] 2.072284e-05 2.072284e-05 1.036142e-05 5.180710e-05 0.000000e+00
## [21911] 6.216851e-05 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05
## [21916] 1.036142e-05 5.180710e-05 1.139756e-04 2.072284e-05 0.000000e+00
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## [21926] 0.000000e+00 2.072284e-05 5.180710e-05 1.243370e-04 1.450599e-04
## [21931] 4.144568e-05 2.072284e-05 1.139756e-04 3.108426e-05 1.243370e-04
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## [22076] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [22506] 1.346984e-04 1.450599e-04 9.325277e-05 8.289135e-05 7.252993e-05
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## [22561] 9.325277e-05 5.180710e-05 4.144568e-05 4.144568e-05 8.289135e-05
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## [22786] 2.072284e-05 2.072284e-05 3.108426e-05 4.144568e-05 1.036142e-05
## [22791] 3.108426e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [22796] 1.346984e-04 0.000000e+00 7.252993e-05 2.072284e-04 2.072284e-05
## [22801] 0.000000e+00 2.072284e-05 8.289135e-05 4.144568e-05 2.072284e-05
## [22806] 2.072284e-04 0.000000e+00 2.383126e-04 1.865055e-04 8.289135e-05
## [22811] 5.180710e-05 0.000000e+00 1.036142e-04 6.216851e-05 7.252993e-05
## [22816] 5.180710e-05 1.036142e-05 0.000000e+00 4.144568e-05 2.072284e-05
## [22821] 2.279512e-04 9.325277e-05 2.072284e-05 5.180710e-05 3.108426e-05
## [22826] 1.139756e-04 1.450599e-04 1.243370e-04 1.036142e-05 5.180710e-05
## [22831] 1.036142e-05 1.450599e-04 1.036142e-05 2.072284e-05 0.000000e+00
## [22836] 2.072284e-05 4.144568e-05 1.036142e-05 0.000000e+00 4.144568e-05
## [22841] 4.144568e-05 9.325277e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [22846] 0.000000e+00 0.000000e+00 2.072284e-05 8.289135e-05 6.216851e-05
## [22851] 0.000000e+00 1.450599e-04 0.000000e+00 8.289135e-05 3.108426e-05
## [22856] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [22861] 6.216851e-05 7.252993e-05 1.036142e-05 5.180710e-05 1.036142e-05
## [22866] 2.072284e-05 9.325277e-05 4.144568e-05 1.346984e-04 6.216851e-05
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## [22901] 1.865055e-04 6.216851e-05 0.000000e+00 0.000000e+00 1.036142e-05
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## [22921] 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05 7.252993e-05
## [22926] 4.144568e-05 1.036142e-05 3.108426e-05 2.901197e-04 4.144568e-05
## [22931] 8.289135e-05 4.144568e-05 2.072284e-05 3.108426e-05 6.216851e-05
## [22936] 2.072284e-05 0.000000e+00 5.180710e-05 1.865055e-04 3.626497e-04
## [22941] 3.108426e-05 8.289135e-05 1.036142e-05 0.000000e+00 3.108426e-05
## [22946] 3.108426e-05 3.108426e-05 2.797583e-04 1.346984e-04 4.144568e-05

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## [22951] 2.797583e-04 5.180710e-05 9.325277e-05 7.252993e-05 4.144568e-05
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## [22966] 7.252993e-05 1.036142e-05 3.108426e-05 7.252993e-05 1.657827e-04
## [22971] 6.216851e-05 9.325277e-05 7.252993e-05 2.072284e-05 4.144568e-05
## [22976] 4.144568e-04 1.139756e-04 1.761441e-04 5.180710e-05 3.108426e-05
## [22981] 3.108426e-05 3.108426e-05 1.865055e-04 4.144568e-05 1.036142e-04
## [22986] 1.243370e-04 1.036142e-05 2.072284e-05 0.000000e+00 2.072284e-05
## [22991] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [22996] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [23001] 2.072284e-05 0.000000e+00 1.036142e-05 2.279512e-04 1.968670e-04
## [23006] 2.072284e-05 3.108426e-05 4.144568e-05 0.000000e+00 2.072284e-05
## [23011] 5.180710e-05 1.036142e-05 1.243370e-04 8.289135e-05 8.289135e-05
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## [23026] 0.000000e+00 4.144568e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [23036] 0.000000e+00 2.072284e-05 6.216851e-05 1.450599e-04 0.000000e+00
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## [23051] 0.000000e+00 2.072284e-05 6.216851e-05 4.144568e-05 2.072284e-05
## [23056] 0.000000e+00 1.036142e-05 9.325277e-05 7.252993e-05 9.325277e-05
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## [23066] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [23076] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-04
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## [23106] 0.000000e+00 1.346984e-04 1.657827e-04 4.144568e-05 2.279512e-04
## [23111] 1.450599e-04 1.036142e-05 4.144568e-05 1.036142e-05 1.036142e-05
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## [23126] 0.000000e+00 0.000000e+00 6.216851e-05 9.325277e-05 7.252993e-05
## [23131] 1.243370e-04 3.108426e-05 4.144568e-05 2.072284e-05 0.000000e+00
## [23136] 4.144568e-05 0.000000e+00 0.000000e+00 3.108426e-05 1.243370e-04
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## [23151] 2.693969e-04 1.181202e-03 1.274455e-03 4.559024e-04 4.144568e-05
## [23156] 0.000000e+00 0.000000e+00 8.289135e-05 2.072284e-05 2.072284e-05
## [23161] 0.000000e+00 5.180710e-05 0.000000e+00 7.252993e-05 1.036142e-05
## [23166] 6.216851e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [23176] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [23186] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [23191] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [23196] 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [23201] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [23206] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [23211] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 2.072284e-05
## [23216] 0.000000e+00 2.072284e-05 4.144568e-05 0.000000e+00 7.252993e-05

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## [23231] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [23236] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23241] 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [23246] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [23256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23261] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23266] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
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## [23276] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23281] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23286] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [23291] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [23296] 4.144568e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
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## [23316] 2.072284e-05 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [23396] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 6.216851e-05
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## [23416] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [23421] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [23426] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [23431] 0.000000e+00 4.144568e-05 4.144568e-05 0.000000e+00 0.000000e+00
## [23436] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [23456] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [23461] 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [23466] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [23511] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [23516] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [23521] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [23526] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [23531] 0.000000e+00 6.216851e-05 4.144568e-05 1.036142e-05 0.000000e+00
## [23536] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [23596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [23601] 0.000000e+00 5.180710e-05 1.036142e-05 0.000000e+00 4.144568e-05
## [23606] 0.000000e+00 0.000000e+00 1.036142e-05 3.108426e-05 2.072284e-05
## [23611] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [23616] 1.036142e-05 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00
## [23621] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [23626] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [23631] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [23661] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [23671] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [23701] 2.072284e-05 2.072284e-05 0.000000e+00 2.072284e-05 4.144568e-05
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## [23726] 0.000000e+00 1.036142e-05 1.243370e-04 6.113237e-04 7.252993e-05
## [23731] 6.216851e-05 2.590355e-04 1.139756e-04 1.761441e-04 7.252993e-05
## [23736] 6.216851e-05 1.036142e-05 1.968670e-04 6.216851e-05 0.000000e+00
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## [25301] 0.000000e+00 0.000000e+00 2.072284e-05 4.144568e-05 2.072284e-05
## [25306] 6.216851e-05 2.072284e-05 2.072284e-05 0.000000e+00 8.289135e-05
## [25311] 2.072284e-05 5.180710e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [25326] 0.000000e+00 0.000000e+00 1.036142e-05 8.289135e-05 0.000000e+00
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## [25351] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [25356] 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00 0.000000e+00
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## [25366] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [25371] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 7.252993e-05
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## [25396] 3.108426e-05 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00
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## [25416] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
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## [25426] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05
## [25431] 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
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## [25636] 3.108426e-05 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
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## [28196] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [28201] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05
## [28206] 0.000000e+00 4.144568e-05 5.180710e-05 3.108426e-05 0.000000e+00
## [28211] 0.000000e+00 9.325277e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [28216] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [28226] 0.000000e+00 4.144568e-05 3.108426e-05 3.108426e-05 1.036142e-05
## [28231] 1.036142e-05 0.000000e+00 2.072284e-05 4.144568e-05 3.108426e-05
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## [28241] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 3.108426e-05
## [28246] 5.180710e-05 2.072284e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [28251] 7.252993e-05 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [28256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [28261] 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05 1.036142e-05
## [28266] 0.000000e+00 6.216851e-05 1.036142e-05 3.108426e-05 0.000000e+00
## [28271] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [28281] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [28286] 3.108426e-05 3.108426e-05 1.036142e-05 2.072284e-05 1.036142e-05
## [28291] 1.036142e-05 2.072284e-05 2.072284e-05 3.108426e-05 6.216851e-05
## [28296] 2.072284e-05 2.072284e-05 4.144568e-05 4.144568e-05 0.000000e+00
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## [28321] 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [28331] 0.000000e+00 2.072284e-05 5.180710e-05 0.000000e+00 3.108426e-05
## [28336] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [28341] 5.180710e-05 2.072284e-05 1.036142e-05 0.000000e+00 3.108426e-05
## [28346] 1.139756e-04 0.000000e+00 0.000000e+00 3.108426e-05 4.144568e-05

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## [28371] 0.000000e+00 5.180710e-05 6.216851e-05 5.180710e-05 3.108426e-05
## [28376] 3.108426e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [28381] 0.000000e+00 2.072284e-05 1.346984e-04 1.036142e-05 7.252993e-05
## [28386] 3.108426e-05 0.000000e+00 7.252993e-05 1.036142e-05 8.289135e-05
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## [28396] 6.216851e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [28401] 4.144568e-05 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00
## [28406] 2.072284e-05 5.180710e-05 1.346984e-04 2.072284e-05 9.325277e-05
## [28411] 8.289135e-05 0.000000e+00 1.036142e-05 2.072284e-05 6.216851e-05
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## [28421] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [28431] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [28436] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
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## [28521] 0.000000e+00 1.036142e-05 5.180710e-05 7.252993e-05 0.000000e+00
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## [28531] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [28651] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [28661] 4.144568e-05 4.144568e-05 6.216851e-05 5.180710e-05 2.072284e-05
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## [28716] 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
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## [28741] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [28806] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 1.450599e-04
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## [28821] 1.036142e-05 0.000000e+00 1.036142e-05 6.216851e-05 3.108426e-05
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## [28836] 1.036142e-05 2.072284e-05 2.072284e-05 7.252993e-05 0.000000e+00
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## [28866] 6.216851e-05 2.383126e-04 6.216851e-05 2.072284e-05 7.252993e-05
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## [28876] 0.000000e+00 5.180710e-05 5.180710e-05 4.144568e-05 0.000000e+00
## [28881] 2.072284e-05 4.144568e-05 0.000000e+00 3.108426e-05 1.036142e-05
## [28886] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 9.325277e-05

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## [28916] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [28921] 0.000000e+00 2.072284e-05 5.180710e-05 1.036142e-05 0.000000e+00
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## [28936] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [29046] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [29051] 3.108426e-05 3.108426e-05 0.000000e+00 5.180710e-05 0.000000e+00
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## [30266] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [31041] 0.000000e+00 2.072284e-05 1.036142e-05 3.108426e-05 7.252993e-05
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## [31096] 1.036142e-05 3.108426e-05 0.000000e+00 1.036142e-05 1.036142e-05
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## [32111] 0.000000e+00 0.000000e+00 7.252993e-05 3.108426e-05 6.216851e-05
## [32116] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 5.180710e-05
## [32121] 5.180710e-05 7.252993e-05 0.000000e+00 7.252993e-05 2.072284e-05
## [32126] 8.289135e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00

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## [32636] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
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## [36706] 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05 6.216851e-05
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##	[37001]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
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##	[37011]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37016]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37021]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37026]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37031]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37036]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[37041]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37046]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37051]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37056]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37061]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37066]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[37071]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	4.144568e-05
##	[37076]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37081]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37086]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37091]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[37096]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37101]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37106]	2.072284e-05	5.180710e-05	0.000000e+00	2.072284e-05	0.000000e+00
##	[37111]	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37116]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37121]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37126]	0.000000e+00	0.000000e+00	5.180710e-05	0.000000e+00	0.000000e+00
##	[37131]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37136]	1.036142e-05	0.000000e+00	0.000000e+00	6.216851e-05	0.000000e+00
##	[37141]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37146]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37151]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[37156]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37161]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[37166]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[37171]	0.000000e+00	0.000000e+00	2.072284e-05	2.072284e-05	0.000000e+00
##	[37176]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37181]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

##	[37261]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37266]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05
##	[37271]	0.000000e+00	1.036142e-05	1.036142e-05	3.108426e-05	2.072284e-05
##	[37276]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[37281]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37286]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37291]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37296]	4.144568e-05	0.000000e+00	0.000000e+00	5.180710e-05	2.072284e-05
##	[37301]	0.000000e+00	0.000000e+00	0.000000e+00	6.216851e-05	2.072284e-05
##	[37306]	5.180710e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37311]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37316]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37321]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37326]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37331]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37336]	1.036142e-05	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-04
##	[37341]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37346]	0.000000e+00	0.000000e+00	4.144568e-05	3.108426e-05	0.000000e+00
##	[37351]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37356]	0.000000e+00	0.000000e+00	0.000000e+00	5.180710e-05	0.000000e+00
##	[37361]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37366]	0.000000e+00	1.036142e-05	4.144568e-05	2.072284e-05	2.072284e-05
##	[37371]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37376]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37381]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[37386]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37391]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37396]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[37401]	0.000000e+00	1.036142e-05	2.072284e-05	0.000000e+00	0.000000e+00
##	[37406]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37411]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37416]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37421]	0.000000e+00	5.180710e-05	0.000000e+00	2.072284e-05	1.036142e-05
##	[37426]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05
##	[37431]	2.072284e-05	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37436]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37441]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37446]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37451]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

##	[37531]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37536]	2.072284e-05	3.108426e-05	0.000000e+00	1.036142e-05	1.036142e-05
##	[37541]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37546]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37551]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37556]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37561]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37566]	2.072284e-05	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37571]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37576]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37581]	2.072284e-05	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[37586]	0.000000e+00	1.036142e-05	2.072284e-05	0.000000e+00	0.000000e+00
##	[37591]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[37596]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	3.108426e-05
##	[37601]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37606]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37611]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37616]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37621]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[37626]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37631]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37636]	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37641]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37646]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37651]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37656]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37661]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37666]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37671]	5.180710e-05	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37676]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37681]	6.216851e-05	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[37686]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37691]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[37696]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37701]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37706]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37711]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[37716]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37721]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	7.252993e-05

##	[37801]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37806]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37811]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37816]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37821]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37826]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37831]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	2.072284e-05
##	[37836]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37841]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[37846]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37851]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37856]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[37861]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37866]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37871]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37876]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[37881]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[37886]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[37891]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	4.144568e-05
##	[37896]	1.036142e-05	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37901]	2.072284e-05	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[37906]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37911]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[37916]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37921]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37926]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37931]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37936]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37941]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[37946]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37951]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[37956]	0.000000e+00	2.072284e-05	0.000000e+00	3.108426e-05	0.000000e+00
##	[37961]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[37966]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[37971]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[37976]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[37981]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	2.072284e-05
##	[37986]	0.000000e+00	0.000000e+00	1.036142e-05	4.144568e-05	5.180710e-05
##	[37991]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

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## [38071] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38076] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38081] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [38086] 2.072284e-05 6.216851e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [38091] 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [38096] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38101] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 6.216851e-05
## [38106] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [38111] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05
## [38116] 3.108426e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [38121] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38126] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [38131] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05
## [38136] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [38141] 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [38146] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 6.216851e-05
## [38151] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38156] 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00
## [38161] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38166] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [38171] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [38176] 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [38181] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38186] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [38191] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [38196] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [38201] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [38206] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [38211] 4.144568e-05 7.252993e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [38216] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38221] 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05 5.180710e-05
## [38226] 0.000000e+00 2.072284e-05 0.000000e+00 5.180710e-05 3.108426e-05
## [38231] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [38236] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [38241] 3.108426e-05 3.108426e-05 5.180710e-05 1.036142e-05 0.000000e+00
## [38246] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 3.108426e-05
## [38251] 5.180710e-05 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [38256] 1.036142e-05 0.000000e+00 6.216851e-05 0.000000e+00 1.036142e-05
## [38261] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [39416] 6.216851e-05 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00

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## [39456] 1.346984e-04 6.216851e-05 4.144568e-05 1.036142e-04 1.036142e-05
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## [41296] 3.108426e-05 7.252993e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [41301] 5.180710e-05 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [41306] 2.072284e-05 6.216851e-05 1.036142e-05 0.000000e+00 6.216851e-05

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## [41346] 0.000000e+00 0.000000e+00 3.108426e-05 2.072284e-05 7.252993e-05
## [41351] 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [41356] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [41361] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [41366] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [41371] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
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## [41381] 4.144568e-05 4.144568e-05 6.216851e-05 6.216851e-05 1.036142e-05
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## [41396] 0.000000e+00 3.108426e-05 0.000000e+00 3.108426e-05 1.036142e-05
## [41401] 0.000000e+00 1.036142e-05 2.072284e-05 1.036142e-05 2.072284e-05
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## [41516] 1.036142e-04 8.289135e-05 1.346984e-04 3.108426e-05 2.693969e-04
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## [41591] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 1.450599e-04
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## [41621] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 5.180710e-05
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## [42031] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 3.108426e-05
## [42036] 9.325277e-05 2.072284e-05 1.036142e-05 0.000000e+00 4.144568e-05
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## [42096] 0.000000e+00 2.072284e-05 1.036142e-05 2.072284e-05 1.036142e-05
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## [42221] 1.036142e-05 2.072284e-05 2.072284e-05 1.036142e-05 0.000000e+00
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## [42231] 1.036142e-05 8.289135e-05 1.036142e-05 7.252993e-05 5.180710e-05
## [42236] 1.036142e-05 3.108426e-05 3.108426e-05 0.000000e+00 1.036142e-05
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## [42286] 0.000000e+00 2.072284e-05 2.072284e-05 2.072284e-05 0.000000e+00
## [42291] 0.000000e+00 4.144568e-05 1.036142e-05 0.000000e+00 2.072284e-05
## [42296] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
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## [42376] 0.000000e+00 3.108426e-05 0.000000e+00 2.072284e-05 1.761441e-04
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## [47176] 5.180710e-05 4.144568e-05 4.144568e-05 2.072284e-05 1.036142e-05
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[illegible]

[illegible]

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## [50526] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [50531] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [51046] 0.000000e+00 7.252993e-05 2.072284e-05 4.144568e-05 2.072284e-05
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## [51066] 0.000000e+00 2.072284e-05 1.139756e-04 5.180710e-05 3.108426e-05
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## [51136] 0.000000e+00 5.180710e-05 0.000000e+00 1.036142e-04 4.144568e-05
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## [51181] 0.000000e+00 1.036142e-05 1.036142e-05 2.072284e-05 2.072284e-05
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## [51226] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [51291] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [51316] 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [51396] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [52096] 9.325277e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [53406] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
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## [53416] 2.072284e-05 0.000000e+00 5.180710e-05 1.036142e-04 1.139756e-04
## [53421] 0.000000e+00 1.865055e-04 1.036142e-05 1.036142e-05 9.325277e-05
## [53426] 4.144568e-05 0.000000e+00 1.036142e-05 4.144568e-05 1.036142e-05
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## [53436] 1.036142e-04 4.144568e-05 5.180710e-05 9.325277e-05 1.243370e-04
## [53441] 3.108426e-05 4.144568e-05 6.216851e-05 4.144568e-05 2.072284e-05
## [53446] 1.036142e-05 0.000000e+00 3.108426e-05 8.289135e-05 0.000000e+00
## [53451] 6.216851e-05 2.072284e-05 9.325277e-05 1.761441e-04 8.289135e-05
## [53456] 5.180710e-05 6.216851e-05 4.144568e-05 8.289135e-05 6.216851e-05

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## [53466] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.139756e-04
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## [53476] 5.180710e-05 9.325277e-05 0.000000e+00 4.144568e-05 1.346984e-04
## [53481] 7.252993e-05 3.108426e-05 1.036142e-05 2.072284e-05 2.072284e-05
## [53486] 1.036142e-05 8.289135e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [53491] 0.000000e+00 0.000000e+00 3.108426e-05 2.072284e-05 4.144568e-05
## [53496] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [53501] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [53506] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 8.289135e-05
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## [53521] 2.072284e-05 0.000000e+00 1.036142e-05 8.289135e-05 1.036142e-05
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## [53536] 6.216851e-05 7.252993e-05 1.346984e-04 0.000000e+00 2.072284e-05
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## [53621] 1.036142e-04 0.000000e+00 5.180710e-05 2.072284e-05 0.000000e+00
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## [53666] 2.693969e-04 9.325277e-05 4.144568e-05 1.036142e-04 7.252993e-05
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## [53706] 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [53711] 0.000000e+00 1.036142e-05 1.243370e-04 0.000000e+00 1.036142e-05
## [53716] 5.180710e-05 1.554213e-04 1.657827e-04 1.139756e-04 3.108426e-05
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## [53726] 1.243370e-04 5.180710e-05 3.108426e-05 2.072284e-05 0.000000e+00

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## [53751] 0.000000e+00 0.000000e+00 5.180710e-05 2.072284e-05 5.180710e-05
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## [53781] 1.036142e-05 1.036142e-05 5.180710e-05 5.180710e-05 4.144568e-05
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## [53791] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [53796] 0.000000e+00 0.000000e+00 4.144568e-05 1.243370e-04 6.216851e-05
## [53801] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 5.180710e-05
## [53806] 1.036142e-05 0.000000e+00 1.243370e-04 2.072284e-05 5.180710e-05
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## [53821] 0.000000e+00 8.289135e-05 0.000000e+00 4.144568e-05 4.144568e-05
## [53826] 1.139756e-04 1.036142e-05 0.000000e+00 2.072284e-05 6.216851e-05
## [53831] 3.108426e-04 5.180710e-05 6.216851e-05 1.865055e-04 9.325277e-05
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## [53841] 4.144568e-05 3.108426e-05 1.554213e-04 1.036142e-04 7.252993e-05
## [53846] 5.180710e-05 7.252993e-05 1.036142e-04 1.554213e-04 8.289135e-05
## [53851] 6.216851e-05 9.325277e-05 2.072284e-05 2.590355e-04 2.072284e-04
## [53856] 2.279512e-04 1.865055e-04 1.036142e-04 5.180710e-05 1.346984e-04
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## [53936] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [53941] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05
## [53946] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [53966] 0.000000e+00 1.036142e-05 4.144568e-05 4.144568e-05 2.072284e-05
## [53971] 0.000000e+00 0.000000e+00 3.108426e-05 6.216851e-05 1.139756e-04
## [53976] 3.108426e-05 4.144568e-05 0.000000e+00 2.072284e-05 5.180710e-05
## [53981] 2.072284e-05 0.000000e+00 9.325277e-05 1.036142e-05 1.036142e-05
## [53986] 7.252993e-05 1.036142e-05 0.000000e+00 3.108426e-05 6.216851e-05
## [53991] 1.761441e-04 5.180710e-05 1.036142e-04 6.216851e-05 2.072284e-05
## [53996] 2.072284e-05 2.072284e-05 0.000000e+00 3.108426e-05 1.036142e-05

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## [54026] 2.072284e-05 8.289135e-05 3.108426e-05 1.036142e-05 0.000000e+00
## [54031] 4.144568e-05 9.325277e-05 8.289135e-05 5.180710e-05 0.000000e+00
## [54036] 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00 6.216851e-05
## [54041] 7.252993e-05 6.216851e-05 8.289135e-05 1.036142e-05 4.144568e-05
## [54046] 8.289135e-05 6.216851e-05 8.289135e-05 3.108426e-05 1.036142e-04
## [54051] 1.036142e-05 2.486741e-04 1.243370e-04 2.072284e-05 3.108426e-05
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## [54066] 8.289135e-05 7.252993e-05 7.252993e-05 2.175898e-04 2.590355e-04
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## [54081] 1.373924e-02 2.497102e-03 1.813248e-03 1.882670e-02 2.963366e-02
## [54086] 1.410189e-02 6.237574e-03 3.066980e-03 1.861947e-02 1.231973e-02
## [54091] 8.765761e-03 1.812212e-02 9.791541e-03 6.102876e-03 8.496364e-03
## [54096] 6.382634e-03 7.491306e-03 9.605036e-03 5.843840e-03 5.159987e-03
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## [54256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [54261] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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```

[illegible]

[illegible]

[illegible]

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##	[55091]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[55096]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55101]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55106]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55111]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	2.072284e-05
##	[55116]	2.072284e-05	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[55121]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55126]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[55131]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[55136]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55141]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55146]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55151]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55156]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	1.036142e-05
##	[55161]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[55166]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55171]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-05
##	[55176]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55181]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55186]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55191]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55196]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55201]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55206]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55211]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[55216]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55221]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55226]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[55231]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55236]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55241]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55246]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	5.180710e-05
##	[55251]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55256]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[55261]	5.180710e-05	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[55266]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
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## [56186] 2.797583e-04 3.833725e-04 7.252993e-05 7.252993e-05 2.383126e-04
## [56191] 5.491552e-04 2.279512e-04 1.243370e-04 1.554213e-04 2.590355e-04
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## [61041] 5.180710e-05 1.036142e-05 2.486741e-04 1.036142e-05 4.144568e-05
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## [61256] 2.590355e-04 6.216851e-05 3.522883e-04 2.072284e-04 1.243370e-04
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## [61266] 3.108426e-05 2.901197e-04 3.108426e-05 1.554213e-04 1.243370e-04
## [61271] 2.175898e-04 9.325277e-05 4.144568e-05 6.216851e-05 2.072284e-05
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## [61281] 1.450599e-04 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
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## [61316] 1.139756e-04 1.450599e-04 1.036142e-05 1.036142e-05 3.108426e-05
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## [61806] 0.000000e+00 3.108426e-05 2.072284e-05 1.036142e-05 1.036142e-05
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## [61821] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
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## [62231] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00
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## [62256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [62271] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [62276] 0.000000e+00 0.000000e+00 0.000000e+00 7.252993e-05 8.289135e-05
## [62281] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05
## [62286] 0.000000e+00 0.000000e+00 9.325277e-05 4.144568e-05 9.325277e-05
## [62291] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [62296] 0.000000e+00 0.000000e+00 1.036142e-05 5.180710e-05 0.000000e+00
## [62301] 1.036142e-05 4.144568e-05 5.180710e-05 3.108426e-05 0.000000e+00
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## [62311] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [62331] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [62336] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [62341] 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [62346] 2.072284e-05 7.252993e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [62351] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [62356] 3.108426e-05 0.000000e+00 7.252993e-05 1.036142e-05 1.036142e-05
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## [62366] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05

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## [62436] 0.000000e+00 0.000000e+00 1.036142e-05 3.108426e-05 3.108426e-05
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## [62451] 1.036142e-05 2.072284e-05 1.346984e-04 1.139756e-04 9.325277e-05
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## [62476] 3.108426e-05 7.252993e-05 5.180710e-05 4.144568e-05 4.144568e-05
## [62481] 8.289135e-05 1.036142e-05 5.180710e-05 0.000000e+00 4.144568e-05
## [62486] 1.036142e-05 1.036142e-05 0.000000e+00 3.108426e-05 1.036142e-05
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## [62496] 2.072284e-04 1.346984e-04 2.072284e-05 2.279512e-04 2.072284e-05
## [62501] 2.072284e-04 1.139756e-04 3.108426e-05 4.144568e-05 7.252993e-05
## [62506] 6.216851e-05 7.252993e-05 1.346984e-04 1.450599e-04 1.243370e-04
## [62511] 1.450599e-04 2.175898e-04 1.346984e-04 5.180710e-05 2.072284e-05
## [62516] 2.072284e-04 6.216851e-05 2.072284e-05 1.346984e-04 4.144568e-05
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## [62541] 7.252993e-05 1.657827e-04 1.139756e-04 4.144568e-05 6.216851e-05
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## [62581] 0.000000e+00 2.072284e-05 7.252993e-05 0.000000e+00 5.180710e-05
## [62586] 3.108426e-05 1.761441e-04 1.036142e-05 1.036142e-05 7.252993e-05
## [62591] 1.346984e-04 9.325277e-05 1.968670e-04 1.036142e-05 5.180710e-05
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## [62691] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [62696] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [62711] 3.108426e-05 2.072284e-05 7.252993e-05 8.289135e-05 6.216851e-05
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## [62721] 1.450599e-04 1.139756e-04 3.108426e-05 0.000000e+00 1.243370e-04
## [62726] 4.144568e-05 0.000000e+00 1.243370e-04 9.325277e-05 5.180710e-05
## [62731] 0.000000e+00 3.108426e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [62736] 1.554213e-04 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05
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## [62746] 0.000000e+00 2.383126e-04 4.144568e-05 5.180710e-05 7.252993e-05
## [62751] 2.175898e-04 6.216851e-05 4.144568e-05 1.657827e-04 0.000000e+00
## [62756] 8.289135e-05 2.072284e-05 1.968670e-04 1.243370e-04 0.000000e+00
## [62761] 2.072284e-05 1.243370e-04 1.346984e-04 6.216851e-05 3.108426e-05
## [62766] 1.243370e-04 7.252993e-05 1.036142e-05 1.657827e-04 5.180710e-05
## [62771] 0.000000e+00 3.108426e-05 0.000000e+00 1.450599e-04 5.180710e-05
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## [62826] 0.000000e+00 1.036142e-05 0.000000e+00 7.252993e-05 9.325277e-05
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## [62846] 1.036142e-05 4.144568e-05 1.865055e-04 9.325277e-05 1.657827e-04
## [62851] 8.289135e-05 1.036142e-04 1.450599e-04 4.144568e-05 1.346984e-04
## [62856] 1.139756e-04 1.139756e-04 1.243370e-04 3.108426e-05 5.180710e-05
## [62861] 0.000000e+00 9.325277e-05 1.139756e-04 5.180710e-05 2.072284e-05
## [62866] 1.036142e-05 3.108426e-05 1.243370e-04 1.036142e-05 4.144568e-05
## [62871] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [62876] 5.180710e-05 1.036142e-05 1.243370e-04 1.657827e-04 9.325277e-05
## [62881] 3.108426e-05 8.289135e-05 6.216851e-05 4.144568e-05 5.180710e-05
## [62886] 2.383126e-04 1.865055e-04 1.243370e-04 1.139756e-04 5.180710e-05
## [62891] 1.036142e-04 1.657827e-04 1.346984e-04 4.144568e-05 3.108426e-05
## [62896] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [62901] 0.000000e+00 1.036142e-05 6.216851e-05 6.216851e-05 4.144568e-05
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## [63026] 9.325277e-05 1.036142e-05 8.289135e-05 7.252993e-05 1.865055e-04
## [63031] 1.450599e-04 5.180710e-05 1.036142e-05 5.180710e-05 1.036142e-05
## [63036] 0.000000e+00 1.036142e-05 3.108426e-05 8.289135e-05 0.000000e+00
## [63041] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 5.180710e-05
## [63046] 0.000000e+00 9.325277e-05 1.036142e-04 1.036142e-04 1.139756e-04
## [63051] 6.216851e-05 0.000000e+00 3.108426e-05 1.243370e-04 9.325277e-05
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## [63066] 3.108426e-05 7.252993e-05 2.072284e-05 1.036142e-05 1.036142e-05
## [63071] 2.072284e-05 4.144568e-05 1.761441e-04 2.383126e-04 2.072284e-05
## [63076] 0.000000e+00 0.000000e+00 6.216851e-05 4.144568e-05 0.000000e+00
## [63081] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [64166] 1.036142e-05 4.144568e-05 0.000000e+00 0.000000e+00 5.180710e-05
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## [64176] 0.000000e+00 8.289135e-05 0.000000e+00 2.072284e-05 9.325277e-05
## [64181] 2.072284e-05 4.144568e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [64186] 2.072284e-05 5.180710e-05 5.180710e-05 0.000000e+00 1.036142e-05
## [64191] 1.036142e-05 1.036142e-05 0.000000e+00 6.216851e-05 1.036142e-05
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## [64201] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [64206] 1.036142e-05 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
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## [64221] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [64231] 9.325277e-05 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [64246] 2.072284e-05 6.216851e-05 2.072284e-05 3.108426e-05 2.072284e-05
## [64251] 4.144568e-05 0.000000e+00 2.072284e-05 4.144568e-05 0.000000e+00
## [64256] 7.252993e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00

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## [64266] 0.000000e+00 1.761441e-04 4.144568e-05 3.108426e-05 2.072284e-05
## [64271] 1.036142e-05 0.000000e+00 1.036142e-05 1.036142e-05 8.289135e-05
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## [64281] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05
## [64286] 3.108426e-05 3.108426e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [64291] 0.000000e+00 0.000000e+00 2.072284e-05 1.554213e-04 1.243370e-04
## [64296] 5.180710e-05 0.000000e+00 0.000000e+00 8.289135e-05 8.289135e-05
## [64301] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [64306] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [64321] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 3.108426e-05
## [64326] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [64421] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
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## [64451] 3.108426e-05 0.000000e+00 2.072284e-05 8.289135e-05 2.072284e-05
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## [64461] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [64466] 0.000000e+00 4.144568e-05 2.072284e-05 4.144568e-05 3.108426e-05
## [64471] 0.000000e+00 5.180710e-05 2.072284e-05 1.036142e-05 0.000000e+00
## [64476] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [64481] 8.289135e-05 0.000000e+00 0.000000e+00 1.036142e-05 3.108426e-05
## [64486] 9.325277e-05 3.108426e-05 1.036142e-05 1.036142e-04 8.289135e-05
## [64491] 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [64501] 4.144568e-05 1.036142e-05 9.325277e-05 5.180710e-05 1.036142e-05
## [64506] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [64511] 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05 1.036142e-05
## [64516] 1.036142e-05 7.252993e-05 6.216851e-05 2.072284e-05 3.108426e-05
## [64521] 1.450599e-04 4.144568e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [64526] 2.072284e-05 0.000000e+00 0.000000e+00 5.180710e-05 6.216851e-05

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## [64531] 5.180710e-05 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [64536] 6.216851e-05 1.036142e-05 2.072284e-05 2.072284e-05 1.036142e-04
## [64541] 0.000000e+00 2.072284e-05 1.139756e-04 4.144568e-05 1.036142e-05
## [64546] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [64551] 3.108426e-05 1.036142e-05 6.216851e-05 1.139756e-04 4.144568e-05
## [64556] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [64561] 0.000000e+00 8.289135e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [64566] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
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## [64616] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [64626] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05
## [64631] 4.144568e-05 9.325277e-05 1.036142e-05 1.036142e-05 8.289135e-05
## [64636] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [64656] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [64661] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [64666] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 2.072284e-05
## [64671] 0.000000e+00 6.216851e-05 1.036142e-05 0.000000e+00 3.108426e-05
## [64676] 0.000000e+00 5.180710e-05 7.252993e-05 4.144568e-05 2.072284e-05
## [64681] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 6.216851e-05
## [64686] 3.108426e-05 3.108426e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [64691] 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [64696] 5.180710e-05 3.108426e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [64701] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [64706] 0.000000e+00 4.144568e-05 1.036142e-05 4.144568e-05 1.865055e-04
## [64711] 1.761441e-04 8.289135e-05 0.000000e+00 2.072284e-05 2.072284e-05
## [64716] 2.072284e-05 0.000000e+00 3.108426e-05 5.180710e-05 8.289135e-05
## [64721] 0.000000e+00 9.325277e-05 1.139756e-04 3.108426e-05 2.072284e-05
## [64726] 1.968670e-04 9.325277e-05 1.450599e-04 6.424080e-04 6.320466e-04
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## [64746] 2.279512e-04 4.144568e-05 1.036142e-05 1.243370e-04 1.036142e-04
## [64751] 3.212040e-04 3.833725e-04 2.072284e-05 9.325277e-05 2.590355e-04
## [64756] 3.419268e-04 4.662639e-04 1.865055e-04 7.252993e-05 2.072284e-04
## [64761] 7.252993e-05 4.144568e-05 0.000000e+00 4.144568e-05 1.036142e-05
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## [64771] 0.000000e+00 9.325277e-05 3.108426e-05 0.000000e+00 4.144568e-05
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## [64786] 1.036142e-05 1.968670e-04 5.491552e-04 1.968670e-04 2.383126e-04
## [64791] 2.279512e-04 9.325277e-05 4.144568e-05 1.036142e-05 0.000000e+00
## [64796] 3.108426e-05 3.108426e-05 1.346984e-04 2.797583e-04 6.216851e-05

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##	[64801]	7.252993e-05	5.180710e-05	5.180710e-05	6.216851e-05	4.144568e-05
##	[64806]	1.968670e-04	1.346984e-04	1.243370e-04	2.693969e-04	1.036142e-04
##	[64811]	1.968670e-04	1.554213e-04	1.761441e-04	1.036142e-04	6.216851e-05
##	[64816]	2.693969e-04	4.040953e-04	1.139756e-04	1.968670e-04	1.036142e-04
##	[64821]	2.279512e-04	1.139756e-04	1.139756e-04	2.072284e-05	7.252993e-05
##	[64826]	0.000000e+00	0.000000e+00	4.144568e-05	1.036142e-05	0.000000e+00
##	[64831]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64836]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[64841]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64846]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64851]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64856]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[64861]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64866]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64871]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64876]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64881]	5.180710e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64886]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64891]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64896]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64901]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64906]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64911]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	6.216851e-05
##	[64916]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64921]	2.072284e-05	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[64926]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64931]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[64936]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64941]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64946]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64951]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64956]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64961]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[64966]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64971]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[64976]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64981]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[64986]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[64991]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

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## [67516] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [67521] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [67526] 0.000000e+00 0.000000e+00 0.000000e+00 7.252993e-05 0.000000e+00
## [67531] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [67536] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [67551] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [67556] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [67561] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [67566] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [67571] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [67591] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [67596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [67601] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [67606] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [67611] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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##	[68061]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
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##	[68076]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[68081]	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00
##	[68086]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[68091]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
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##	[68146]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[68151]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	1.036142e-05
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##	[68186]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
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## [70681] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [70686] 6.216851e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [70691] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [70696] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [70701] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [70706] 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [70711] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [70716] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [70721] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [70726] 0.000000e+00 0.000000e+00 6.216851e-05 2.072284e-05 0.000000e+00
## [70731] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [70736] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05

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##	[70741]	0.000000e+00	1.036142e-05	0.000000e+00	2.072284e-05	0.000000e+00
##	[70746]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70751]	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70756]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[70761]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70766]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[70771]	0.000000e+00	0.000000e+00	3.108426e-05	1.036142e-05	0.000000e+00
##	[70776]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70781]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05
##	[70786]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[70791]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05
##	[70796]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[70801]	0.000000e+00	3.108426e-05	3.108426e-05	4.144568e-05	0.000000e+00
##	[70806]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[70811]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[70816]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70821]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70826]	0.000000e+00	0.000000e+00	0.000000e+00	6.216851e-05	1.036142e-05
##	[70831]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70836]	0.000000e+00	0.000000e+00	0.000000e+00	7.252993e-05	0.000000e+00
##	[70841]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70846]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70851]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70856]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70861]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[70866]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70871]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70876]	0.000000e+00	0.000000e+00	4.144568e-05	1.036142e-05	0.000000e+00
##	[70881]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70886]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[70891]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	3.108426e-05
##	[70896]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[70901]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70906]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70911]	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00
##	[70916]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[70921]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[70926]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[70931]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00



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## [71011] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [71016] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71021] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [71026] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [71031] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71036] 0.000000e+00 1.036142e-05 2.072284e-05 1.554213e-04 0.000000e+00
## [71041] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 4.144568e-05
## [71046] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71051] 2.072284e-05 4.144568e-05 4.144568e-05 0.000000e+00 0.000000e+00
## [71056] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 3.108426e-05
## [71061] 7.252993e-05 0.000000e+00 0.000000e+00 4.144568e-05 4.144568e-05
## [71066] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71071] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71076] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71081] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71086] 0.000000e+00 0.000000e+00 6.216851e-05 2.072284e-05 1.036142e-05
## [71091] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71096] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71101] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71106] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71111] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [71116] 0.000000e+00 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [71121] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05
## [71126] 0.000000e+00 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00
## [71131] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [71136] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71141] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71146] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05
## [71151] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71156] 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00 4.144568e-05
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## [71176] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71181] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71186] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [71191] 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [71196] 0.000000e+00 1.036142e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [71201] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71206] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71211] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71216] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71221] 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05
## [71226] 0.000000e+00 0.000000e+00 7.252993e-05 3.108426e-05 0.000000e+00
## [71231] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71236] 5.180710e-05 4.144568e-05 2.072284e-05 3.108426e-05 0.000000e+00
## [71241] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71246] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [71251] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [71256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71261] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71266] 0.000000e+00 0.000000e+00 4.144568e-05 4.144568e-05 9.325277e-05
## [71271] 6.216851e-05 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [71276] 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05

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## [71281] 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05 1.036142e-05
## [71286] 4.144568e-05 1.036142e-05 3.108426e-05 6.216851e-05 3.108426e-05
## [71291] 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [71296] 4.144568e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71301] 0.000000e+00 9.325277e-05 6.216851e-05 0.000000e+00 3.108426e-05
## [71306] 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [71311] 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [71316] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
## [71321] 3.108426e-05 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [71326] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [71346] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [71351] 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [71356] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [71361] 0.000000e+00 1.036142e-05 2.072284e-05 5.180710e-05 7.252993e-05
## [71366] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [71376] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71381] 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00
## [71386] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71391] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [71396] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 4.144568e-05
## [71401] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [71406] 1.036142e-05 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [71411] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71416] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [71421] 2.072284e-05 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [71426] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71431] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [71436] 2.072284e-05 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
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## [71456] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [71461] 1.036142e-05 0.000000e+00 0.000000e+00 4.144568e-05 5.180710e-05
## [71466] 1.036142e-05 2.072284e-05 4.144568e-05 1.036142e-05 0.000000e+00
## [71471] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71476] 0.000000e+00 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [71481] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71511] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71516] 1.036142e-05 1.139756e-04 0.000000e+00 2.072284e-05 1.036142e-05
## [71521] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [71526] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71531] 2.072284e-05 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [71541] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71546] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00

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```

## [71551] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00
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## [71566] 0.000000e+00 1.036142e-05 5.180710e-05 1.036142e-05 0.000000e+00
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## [71576] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71596] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [71601] 3.108426e-05 2.072284e-05 3.108426e-05 0.000000e+00 1.036142e-05
## [71606] 3.108426e-05 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05
## [71611] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71621] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
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## [71676] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71681] 0.000000e+00 0.000000e+00 0.000000e+00 7.252993e-05 0.000000e+00
## [71686] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71691] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71696] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [71701] 0.000000e+00 4.144568e-05 7.252993e-05 0.000000e+00 3.108426e-05
## [71706] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71726] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 5.180710e-05
## [71731] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71766] 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
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## [71776] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71781] 2.072284e-05 0.000000e+00 1.036142e-05 6.216851e-05 1.036142e-05
## [71786] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [71791] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [71796] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71806] 2.072284e-05 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
## [71811] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [71836] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [71841] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [71851] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71861] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [71876] 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [71881] 0.000000e+00 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00
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## [72076] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [72216] 2.072284e-05 1.036142e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [72221] 3.108426e-05 7.252993e-05 0.000000e+00 2.279512e-04 6.216851e-05
## [72226] 3.108426e-05 0.000000e+00 3.108426e-05 6.216851e-05 0.000000e+00
## [72231] 0.000000e+00 2.072284e-05 1.036142e-05 4.144568e-05 3.108426e-05
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## [72246] 1.036142e-04 4.144568e-05 8.289135e-05 6.216851e-05 1.450599e-04
## [72251] 1.139756e-04 8.289135e-05 2.072284e-05 1.036142e-05 1.036142e-05
## [72256] 1.036142e-04 0.000000e+00 0.000000e+00 5.180710e-05 6.216851e-05
## [72261] 4.144568e-05 2.072284e-05 5.180710e-05 3.108426e-05 0.000000e+00
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## [72276] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [72286] 0.000000e+00 9.325277e-05 8.289135e-05 3.108426e-05 3.108426e-05
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## [72296] 2.072284e-05 0.000000e+00 1.036142e-05 7.252993e-05 5.180710e-05
## [72301] 0.000000e+00 4.144568e-05 2.072284e-05 1.036142e-05 1.036142e-05
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## [72336] 0.000000e+00 0.000000e+00 1.243370e-04 0.000000e+00 3.108426e-05
## [72341] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [72346] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
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## [72376] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
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## [72386] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72391] 0.000000e+00 4.144568e-05 2.072284e-05 0.000000e+00 2.072284e-05
## [72396] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72401] 2.072284e-05 4.144568e-05 6.216851e-05 0.000000e+00 6.216851e-05
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## [72416] 0.000000e+00 6.216851e-05 4.144568e-05 2.072284e-05 6.216851e-05
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## [72441] 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [72456] 1.036142e-05 3.108426e-05 1.036142e-05 8.289135e-05 3.108426e-05
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## [72471] 6.216851e-05 2.072284e-05 7.252993e-05 1.036142e-05 0.000000e+00
## [72476] 1.036142e-05 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [72486] 1.036142e-05 3.108426e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [72491] 0.000000e+00 0.000000e+00 1.243370e-04 4.144568e-05 9.325277e-05
## [72496] 0.000000e+00 0.000000e+00 1.036142e-05 5.180710e-05 0.000000e+00
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## [72576] 0.000000e+00 7.252993e-05 0.000000e+00 4.144568e-05 2.072284e-05
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## [72591] 1.036142e-05 2.072284e-05 1.036142e-05 5.180710e-05 7.252993e-05
## [72596] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 3.108426e-05
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## [72616] 0.000000e+00 2.072284e-05 5.180710e-05 2.072284e-05 0.000000e+00
## [72621] 4.144568e-05 3.108426e-05 6.216851e-05 1.036142e-05 1.036142e-05
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## [72656] 2.072284e-05 6.216851e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [72661] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [72666] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
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## [72676] 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05 1.036142e-05
## [72681] 5.180710e-05 4.144568e-05 0.000000e+00 1.036142e-05 3.108426e-05
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## [72706] 2.072284e-05 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [72711] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 2.072284e-05
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## [72721] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [72726] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [72741] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [72746] 5.180710e-05 1.036142e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [72751] 2.072284e-05 1.036142e-05 4.144568e-05 0.000000e+00 1.036142e-05
## [72756] 2.072284e-05 3.108426e-05 0.000000e+00 1.036142e-05 3.108426e-05
## [72761] 5.180710e-05 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [72766] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 4.144568e-05
## [72771] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72776] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 3.108426e-05
## [72781] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [72786] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [72791] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72796] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [72801] 1.036142e-05 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [72806] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72811] 0.000000e+00 2.072284e-05 4.144568e-05 1.036142e-05 0.000000e+00
## [72816] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72821] 1.036142e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [72826] 7.252993e-05 1.036142e-05 4.144568e-05 1.036142e-05 0.000000e+00
## [72831] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
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## [72841] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 1.036142e-05
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## [72861] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [72876] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [72881] 3.108426e-05 1.036142e-05 1.036142e-05 1.036142e-05 0.000000e+00
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## [72891] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [72896] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00

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## [72906] 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [72911] 0.000000e+00 1.036142e-05 2.072284e-05 6.216851e-05 3.108426e-05
## [72916] 0.000000e+00 4.144568e-05 7.252993e-05 0.000000e+00 0.000000e+00
## [72921] 0.000000e+00 0.000000e+00 1.346984e-04 0.000000e+00 1.036142e-05
## [72926] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [72956] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [72976] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [72981] 4.144568e-05 1.036142e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [72986] 4.144568e-05 0.000000e+00 0.000000e+00 6.216851e-05 1.036142e-04
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## [73006] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [73016] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
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## [73026] 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73031] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
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## [73046] 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [73051] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [73056] 6.216851e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [73061] 1.036142e-05 0.000000e+00 3.108426e-05 3.108426e-05 0.000000e+00
## [73066] 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [73071] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73076] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73081] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [73086] 2.072284e-05 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [73091] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73096] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [73106] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [73116] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [73121] 4.144568e-05 2.072284e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [73126] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 1.036142e-05
## [73131] 1.036142e-05 1.036142e-05 0.000000e+00 4.144568e-05 1.036142e-05
## [73136] 0.000000e+00 1.036142e-05 5.180710e-05 0.000000e+00 4.144568e-05
## [73141] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [73146] 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73151] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 9.325277e-05
## [73156] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73161] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73166] 0.000000e+00 0.000000e+00 3.108426e-05 9.325277e-05 3.108426e-05

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[illegible]

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## [73446] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [73456] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73461] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [73466] 1.036142e-05 0.000000e+00 8.289135e-05 6.216851e-05 3.108426e-05
## [73471] 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00
## [73476] 7.252993e-05 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [73481] 1.761441e-04 2.072284e-05 4.144568e-05 2.072284e-05 0.000000e+00
## [73486] 5.180710e-05 6.216851e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [73491] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [73496] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73501] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73506] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [73511] 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73516] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [73521] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [73526] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [73531] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73536] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [73541] 5.180710e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [73546] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73551] 3.108426e-05 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73556] 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [73561] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [73566] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
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## [73576] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [73586] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [73591] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [73596] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [73601] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73606] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73611] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
## [73616] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73621] 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73626] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [73636] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
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## [73651] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05
## [73656] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73661] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [73671] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73676] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [73681] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 3.108426e-05
## [73686] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73691] 4.144568e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73696] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73701] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73706] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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## [73721] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [73726] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73731] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73736] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73741] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73746] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73751] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73756] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73761] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [73766] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73771] 0.000000e+00 1.036142e-05 3.108426e-05 2.072284e-05 0.000000e+00
## [73776] 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73781] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73786] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73791] 4.144568e-05 2.072284e-05 2.072284e-05 1.036142e-05 1.036142e-05
## [73796] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [73806] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73811] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [73816] 1.036142e-05 0.000000e+00 0.000000e+00 9.325277e-05 0.000000e+00
## [73821] 3.108426e-05 3.108426e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [73826] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 8.289135e-05
## [73831] 3.108426e-05 2.072284e-05 3.108426e-05 2.072284e-05 1.036142e-05
## [73836] 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [73841] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [73846] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73851] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [73856] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73861] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [73866] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [73871] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [73876] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73881] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73886] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [73891] 2.072284e-05 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [73896] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [73901] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73906] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [73911] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73916] 2.072284e-05 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [73921] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [73926] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [73931] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [73936] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 2.072284e-05
## [73941] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
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## [73951] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [73956] 1.036142e-05 8.289135e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [73961] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.139756e-04
## [73966] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [73971] 0.000000e+00 4.144568e-05 8.289135e-05 8.289135e-05 0.000000e+00
## [73976] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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[illegible]

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## [74266] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [74286] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [74536] 1.036142e-04 3.108426e-05 9.325277e-05 1.036142e-05 7.252993e-05
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## [75316] 0.000000e+00 0.000000e+00 4.144568e-05 3.108426e-05 4.144568e-05
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## [76286] 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
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## [76296] 0.000000e+00 6.216851e-05 3.108426e-05 1.554213e-04 0.000000e+00
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## [76431] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
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## [76441] 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00
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## [76916] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [76926] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [76941] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [76976] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
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## [78226] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [78231] 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [78236] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78241] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78246] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78251] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [78256] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78261] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78266] 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05 0.000000e+00
## [78271] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78276] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [78281] 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [78286] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [78291] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [78296] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05

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##	[78301]	1.036142e-05	0.000000e+00	1.036142e-05	2.072284e-05	0.000000e+00
##	[78306]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[78311]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78316]	0.000000e+00	0.000000e+00	3.108426e-05	4.144568e-05	1.036142e-05
##	[78321]	0.000000e+00	3.108426e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[78326]	1.036142e-05	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[78331]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78336]	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[78341]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[78346]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78351]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	1.036142e-05
##	[78356]	0.000000e+00	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00
##	[78361]	1.036142e-05	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[78366]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[78371]	0.000000e+00	1.036142e-05	1.036142e-05	0.000000e+00	2.072284e-05
##	[78376]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78381]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	1.036142e-05
##	[78386]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78391]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	2.072284e-05
##	[78396]	2.072284e-05	0.000000e+00	0.000000e+00	5.180710e-05	1.036142e-05
##	[78401]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[78406]	3.108426e-05	0.000000e+00	5.180710e-05	0.000000e+00	0.000000e+00
##	[78411]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78416]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	2.072284e-05
##	[78421]	1.036142e-05	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[78426]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78431]	4.144568e-05	0.000000e+00	2.072284e-05	1.865055e-04	0.000000e+00
##	[78436]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78441]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05
##	[78446]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78451]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[78456]	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[78461]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78466]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78471]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05
##	[78476]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78481]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78486]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[78491]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00

[illegible]

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## [78856] 1.036142e-05 1.036142e-05 5.180710e-05 1.036142e-05 0.000000e+00
## [78861] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [78866] 0.000000e+00 7.252993e-05 1.036142e-05 1.036142e-05 3.108426e-05
## [78871] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [78876] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
## [78881] 4.144568e-05 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [78886] 0.000000e+00 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00
## [78891] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [78896] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [78901] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [78906] 7.252993e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [78911] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [78916] 3.108426e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
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## [78926] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [78931] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [78936] 3.108426e-05 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
## [78941] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 4.144568e-05
## [78946] 0.000000e+00 3.108426e-05 1.036142e-05 2.072284e-05 1.450599e-04
## [78951] 0.000000e+00 4.144568e-05 1.139756e-04 0.000000e+00 3.108426e-05
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## [78961] 0.000000e+00 2.072284e-05 4.144568e-05 0.000000e+00 3.108426e-05
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## [78976] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [78981] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [78986] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
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## [78996] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 4.144568e-05
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## [79021] 0.000000e+00 1.036142e-04 0.000000e+00 1.036142e-05 0.000000e+00
## [79026] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [79031] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79036] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [79051] 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05 5.180710e-05
## [79056] 5.180710e-05 1.036142e-05 4.144568e-05 3.108426e-05 0.000000e+00
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## [79076] 2.072284e-05 1.036142e-05 0.000000e+00 3.108426e-05 0.000000e+00
## [79081] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [79091] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [79161] 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [79166] 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05
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## [79176] 0.000000e+00 2.072284e-05 8.289135e-05 0.000000e+00 3.108426e-05
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## [79186] 2.072284e-05 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
## [79191] 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05
## [79196] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [79206] 6.216851e-05 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [79211] 3.108426e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [79216] 0.000000e+00 3.108426e-05 1.450599e-04 0.000000e+00 0.000000e+00
## [79221] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [79226] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79231] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [79236] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79241] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [79246] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [79251] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 6.216851e-05
## [79256] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [79261] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79266] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-04
## [79271] 0.000000e+00 7.252993e-05 1.450599e-04 1.036142e-05 5.180710e-05
## [79276] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [79281] 8.289135e-05 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [79286] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 4.144568e-05
## [79291] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [79296] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
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## [79326] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79331] 0.000000e+00 0.000000e+00 4.144568e-05 2.072284e-05 1.036142e-05
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## [79361] 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [79366] 1.036142e-05 3.108426e-05 1.036142e-05 0.000000e+00 2.072284e-05
## [79371] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05
## [79376] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00

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## [79386] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
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## [79421] 1.036142e-05 2.072284e-05 0.000000e+00 1.139756e-04 0.000000e+00
## [79426] 0.000000e+00 1.036142e-05 6.216851e-05 0.000000e+00 0.000000e+00
## [79431] 1.036142e-04 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [79436] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79441] 3.108426e-05 2.072284e-05 2.072284e-05 2.072284e-05 0.000000e+00
## [79446] 2.072284e-05 0.000000e+00 1.036142e-05 4.144568e-05 8.289135e-05
## [79451] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79456] 5.180710e-05 0.000000e+00 1.036142e-05 2.072284e-05 4.144568e-05
## [79461] 0.000000e+00 7.252993e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [79466] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [79471] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05
## [79476] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [79481] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [79486] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [79491] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [79496] 0.000000e+00 3.108426e-05 0.000000e+00 6.216851e-05 0.000000e+00
## [79501] 0.000000e+00 4.144568e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [79506] 2.072284e-05 4.144568e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [79511] 5.180710e-05 0.000000e+00 5.180710e-05 1.036142e-05 0.000000e+00
## [79516] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [79521] 5.180710e-05 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00
## [79526] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 5.180710e-05
## [79531] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [79536] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05
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## [79556] 2.072284e-05 1.036142e-05 9.325277e-05 1.036142e-05 1.036142e-05
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## [79571] 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [79596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [79641] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [79716] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [79906] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [79911] 0.000000e+00 0.000000e+00 3.108426e-05 1.139756e-04 0.000000e+00
## [79916] 0.000000e+00 1.036142e-05 2.072284e-05 1.036142e-05 3.108426e-05

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## [81836] 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05 1.865055e-04
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## [81846] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [81876] 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
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## [81886] 9.325277e-05 9.325277e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [81891] 6.216851e-05 2.072284e-04 2.072284e-05 1.036142e-05 5.180710e-05
## [81896] 2.072284e-05 1.036142e-05 4.144568e-05 0.000000e+00 1.346984e-04
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## [81906] 0.000000e+00 2.072284e-05 5.180710e-05 1.036142e-05 3.108426e-05
## [81911] 0.000000e+00 4.144568e-05 4.144568e-05 1.346984e-04 0.000000e+00
## [81916] 0.000000e+00 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [81921] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 8.289135e-05
## [81926] 2.383126e-04 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [81946] 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05 2.072284e-05
## [81951] 0.000000e+00 1.243370e-04 3.108426e-05 1.554213e-04 1.036142e-04
## [81956] 3.108426e-05 0.000000e+00 7.252993e-05 0.000000e+00 9.325277e-05
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## [82041] 1.036142e-05 9.325277e-05 1.036142e-05 5.180710e-05 0.000000e+00
## [82046] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [82051] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [82056] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [82066] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [82076] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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## [82361] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 2.072284e-05
## [82366] 1.036142e-05 0.000000e+00 5.180710e-05 3.108426e-05 0.000000e+00
## [82371] 7.252993e-05 1.036142e-05 4.144568e-05 2.072284e-05 0.000000e+00
## [82376] 6.216851e-05 4.144568e-05 6.216851e-05 1.036142e-05 2.072284e-05
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## [82386] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 9.325277e-05
## [82391] 3.108426e-05 4.144568e-05 0.000000e+00 6.216851e-05 0.000000e+00
## [82396] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [82401] 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [82406] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05
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## [82421] 3.108426e-05 4.144568e-05 4.144568e-05 1.036142e-04 0.000000e+00
## [82426] 0.000000e+00 9.325277e-05 4.144568e-05 1.036142e-05 2.072284e-05
## [82431] 1.036142e-05 1.036142e-05 6.216851e-05 3.108426e-05 1.036142e-05
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## [82446] 0.000000e+00 3.108426e-05 6.216851e-05 1.036142e-05 5.180710e-05
## [82451] 7.252993e-05 8.289135e-05 0.000000e+00 6.216851e-05 0.000000e+00
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## [82466] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [82506] 1.036142e-05 3.108426e-05 5.180710e-05 3.108426e-05 5.180710e-05
## [82511] 0.000000e+00 2.072284e-05 2.072284e-05 2.072284e-05 8.289135e-05
## [82516] 3.108426e-04 8.289135e-05 2.072284e-05 1.036142e-05 3.108426e-05
## [82521] 2.072284e-05 1.036142e-05 5.180710e-05 0.000000e+00 3.108426e-05
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## [82536] 3.108426e-05 8.289135e-05 2.072284e-05 1.036142e-05 3.108426e-05
## [82541] 7.252993e-05 3.108426e-05 3.108426e-05 5.180710e-05 7.252993e-05
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## [82551] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 9.325277e-05
## [82556] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [82561] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [83666] 0.000000e+00 2.072284e-05 2.072284e-05 3.108426e-05 2.072284e-05
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## [83686] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [83716] 2.693969e-04 1.346984e-04 4.144568e-05 1.036142e-05 2.175898e-04
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## [83736] 0.000000e+00 1.036142e-05 2.279512e-04 4.144568e-05 5.180710e-05
## [83741] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [83751] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
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## [83781] 1.968670e-04 3.108426e-05 1.450599e-04 1.036142e-05 4.144568e-05
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## [83961] 3.315654e-04 3.833725e-04 5.906009e-04 1.865055e-04 4.144568e-05
## [83966] 1.036142e-05 4.144568e-05 7.252993e-05 1.036142e-05 0.000000e+00

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## [84006] 1.036142e-05 1.450599e-04 1.036142e-04 1.761441e-04 8.289135e-05
## [84011] 6.216851e-05 1.968670e-04 1.346984e-04 3.108426e-05 2.072284e-05
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## [84031] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [84036] 0.000000e+00 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00
## [84041] 3.108426e-05 0.000000e+00 6.216851e-05 1.036142e-05 1.036142e-05
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## [84416] 7.252993e-05 6.216851e-05 5.180710e-05 3.108426e-05 0.000000e+00
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## [84486] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [84531] 0.000000e+00 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [84546] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [84556] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [84561] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [84576] 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00
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## [84586] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [85561] 4.144568e-05 3.108426e-05 6.216851e-05 6.216851e-05 5.180710e-05
## [85566] 1.036142e-05 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85571] 4.144568e-05 0.000000e+00 1.036142e-05 1.036142e-05 2.072284e-05
## [85576] 2.072284e-05 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [85581] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [85586] 2.072284e-05 2.072284e-05 1.036142e-05 1.036142e-05 2.072284e-05

```

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## [85591] 3.108426e-05 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [85596] 0.000000e+00 1.036142e-05 4.144568e-05 0.000000e+00 8.289135e-05
## [85601] 4.144568e-05 4.144568e-05 0.000000e+00 3.108426e-05 2.072284e-05
## [85606] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [85611] 1.036142e-05 1.036142e-05 1.036142e-05 0.000000e+00 1.036142e-05
## [85616] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85621] 7.252993e-05 3.108426e-05 4.144568e-05 1.036142e-05 4.144568e-05
## [85626] 5.180710e-05 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [85631] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [85636] 0.000000e+00 0.000000e+00 5.180710e-05 3.108426e-05 1.036142e-05
## [85641] 0.000000e+00 8.289135e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [85646] 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [85651] 1.036142e-05 0.000000e+00 2.072284e-05 2.072284e-05 6.216851e-05
## [85656] 2.072284e-05 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85661] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [85666] 0.000000e+00 0.000000e+00 5.180710e-05 1.036142e-05 0.000000e+00
## [85671] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [85676] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 5.180710e-05
## [85681] 0.000000e+00 3.108426e-05 6.216851e-05 1.346984e-04 0.000000e+00
## [85686] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 5.180710e-05
## [85691] 0.000000e+00 1.036142e-05 0.000000e+00 6.216851e-05 0.000000e+00
## [85696] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
## [85701] 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [85706] 2.072284e-05 0.000000e+00 0.000000e+00 6.216851e-05 2.072284e-05
## [85711] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [85716] 2.072284e-05 1.036142e-05 4.144568e-05 2.072284e-05 0.000000e+00
## [85721] 0.000000e+00 1.036142e-05 1.036142e-05 8.289135e-05 2.072284e-05
## [85726] 0.000000e+00 1.036142e-05 2.072284e-05 1.139756e-04 0.000000e+00
## [85731] 0.000000e+00 5.180710e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [85736] 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05 2.072284e-05
## [85741] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 6.216851e-05
## [85746] 0.000000e+00 6.216851e-05 1.036142e-05 2.072284e-05 1.036142e-05
## [85751] 7.252993e-05 2.072284e-05 5.180710e-05 1.036142e-05 1.036142e-05
## [85756] 1.036142e-05 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [85761] 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [85766] 7.252993e-05 9.325277e-05 8.289135e-05 2.072284e-05 0.000000e+00
## [85771] 2.072284e-05 2.072284e-05 9.325277e-05 4.144568e-05 0.000000e+00
## [85776] 3.108426e-05 9.325277e-05 9.325277e-05 1.036142e-05 3.108426e-05
## [85781] 2.072284e-05 3.108426e-05 1.554213e-04 9.325277e-05 1.450599e-04
## [85786] 5.180710e-05 5.180710e-05 7.252993e-05 2.072284e-05 2.072284e-05
## [85791] 2.072284e-05 4.144568e-05 1.036142e-04 0.000000e+00 0.000000e+00
## [85796] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85801] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [85806] 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85811] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [85816] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [85821] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [85826] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [85831] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [85836] 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [85841] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [85846] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [85851] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [85856] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00

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##	[85861]	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[85866]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85871]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85876]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85881]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[85886]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85891]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	2.072284e-05
##	[85896]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85901]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85906]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85911]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85916]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00
##	[85921]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85926]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	3.108426e-05
##	[85931]	0.000000e+00	1.036142e-05	0.000000e+00	2.072284e-05	2.072284e-05
##	[85936]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[85941]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85946]	0.000000e+00	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[85951]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85956]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85961]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[85966]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85971]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85976]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85981]	2.072284e-05	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[85986]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[85991]	2.072284e-05	4.144568e-05	1.036142e-05	0.000000e+00	0.000000e+00
##	[85996]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86001]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86006]	0.000000e+00	0.000000e+00	1.036142e-05	2.072284e-05	0.000000e+00
##	[86011]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86016]	2.072284e-05	9.325277e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[86021]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00
##	[86026]	0.000000e+00	1.036142e-05	3.108426e-05	0.000000e+00	0.000000e+00
##	[86031]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86036]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[86041]	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[86046]	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00
##	[86051]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00



[illegible]

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## [86401] 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [86406] 4.144568e-05 4.144568e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [86411] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86416] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86421] 4.144568e-05 0.000000e+00 0.000000e+00 3.108426e-05 1.036142e-05
## [86426] 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [86431] 0.000000e+00 0.000000e+00 3.108426e-05 3.108426e-05 0.000000e+00
## [86436] 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [86441] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [86446] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86451] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [86456] 0.000000e+00 2.072284e-05 3.108426e-05 7.252993e-05 0.000000e+00
## [86461] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 1.036142e-05
## [86466] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86471] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [86476] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86481] 4.144568e-05 0.000000e+00 1.139756e-04 0.000000e+00 3.108426e-05
## [86486] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86491] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86496] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86501] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [86506] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86511] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [86516] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [86521] 0.000000e+00 2.072284e-05 6.216851e-05 1.036142e-05 0.000000e+00
## [86526] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86531] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86536] 0.000000e+00 5.180710e-05 1.036142e-05 1.036142e-05 0.000000e+00
## [86541] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [86546] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86551] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 4.144568e-05
## [86556] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
## [86561] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86566] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [86571] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [86576] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86581] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [86586] 2.072284e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86591] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86596] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [86601] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [86606] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [86611] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [86616] 2.072284e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86621] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [86626] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [86631] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86636] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86641] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 3.108426e-05
## [86646] 3.108426e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [86651] 2.072284e-05 5.180710e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [86656] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [86661] 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05 0.000000e+00
## [86666] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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##	[86671]	0.000000e+00	2.072284e-05	0.000000e+00	1.036142e-05	0.000000e+00
##	[86676]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86681]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86686]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86691]	1.036142e-05	1.036142e-05	0.000000e+00	0.000000e+00	2.072284e-05
##	[86696]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86701]	0.000000e+00	0.000000e+00	4.144568e-05	0.000000e+00	0.000000e+00
##	[86706]	1.036142e-05	0.000000e+00	1.036142e-05	4.144568e-05	0.000000e+00
##	[86711]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86716]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86721]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86726]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86731]	0.000000e+00	0.000000e+00	0.000000e+00	4.144568e-05	2.072284e-05
##	[86736]	0.000000e+00	1.036142e-05	4.144568e-05	1.036142e-05	0.000000e+00
##	[86741]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86746]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[86751]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86756]	0.000000e+00	0.000000e+00	2.072284e-05	0.000000e+00	0.000000e+00
##	[86761]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[86766]	3.108426e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86771]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86776]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86781]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	2.072284e-05
##	[86786]	0.000000e+00	3.108426e-05	2.072284e-05	0.000000e+00	1.036142e-05
##	[86791]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86796]	2.072284e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86801]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[86806]	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00	0.000000e+00
##	[86811]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[86816]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86821]	3.108426e-05	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	[86826]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86831]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86836]	0.000000e+00	0.000000e+00	0.000000e+00	1.036142e-05	0.000000e+00
##	[86841]	1.036142e-05	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86846]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86851]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86856]	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	[86861]	0.000000e+00	0.000000e+00	0.000000e+00	3.108426e-05	0.000000e+00

[illegible]

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## [88226] 2.072284e-05 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [88231] 5.180710e-05 3.108426e-05 7.252993e-05 1.036142e-04 2.072284e-05
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## [88241] 2.072284e-05 2.072284e-05 1.346984e-04 1.036142e-05 0.000000e+00
## [88246] 1.243370e-04 1.036142e-05 2.072284e-05 1.036142e-05 0.000000e+00
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## [88311] 4.144568e-05 1.968670e-04 6.216851e-05 1.036142e-05 1.036142e-05
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## [89906] 2.072284e-05 0.000000e+00 6.216851e-05 0.000000e+00 1.036142e-05

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## [90196] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [90226] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [90236] 0.000000e+00 0.000000e+00 1.036142e-05 7.252993e-05 3.108426e-05
## [90241] 2.072284e-05 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [90246] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [90251] 2.072284e-05 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [90256] 9.325277e-05 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [90266] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [90271] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
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## [90401] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [90416] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 3.108426e-05
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## [90426] 4.144568e-05 9.325277e-05 2.072284e-05 2.072284e-05 9.325277e-05
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## [90436] 4.144568e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [90441] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [90466] 0.000000e+00 0.000000e+00 6.216851e-05 2.072284e-05 5.180710e-05
## [90471] 7.252993e-05 3.108426e-05 6.216851e-05 2.072284e-04 2.797583e-04
## [90476] 3.626497e-04 8.289135e-05 5.180710e-05 6.216851e-05 3.108426e-05
## [90481] 1.139756e-04 1.139756e-04 6.216851e-05 0.000000e+00 6.216851e-05
## [90486] 1.865055e-04 7.252993e-05 4.144568e-05 1.036142e-05 4.144568e-05
## [90491] 2.072284e-05 4.144568e-05 9.325277e-05 7.252993e-05 3.108426e-05
## [90496] 0.000000e+00 0.000000e+00 4.144568e-05 8.289135e-05 1.036142e-04
## [90501] 2.072284e-05 1.346984e-04 6.216851e-05 4.144568e-05 3.108426e-05
## [90506] 2.072284e-05 2.072284e-05 0.000000e+00 8.289135e-05 5.180710e-05
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## [90516] 6.216851e-05 1.036142e-05 1.036142e-05 4.973481e-04 2.072284e-05
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## [90541] 0.000000e+00 1.346984e-04 1.036142e-05 7.252993e-05 2.072284e-05
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## [90551] 3.108426e-05 4.144568e-05 1.761441e-04 4.144568e-05 0.000000e+00
## [90556] 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [90576] 0.000000e+00 0.000000e+00 7.252993e-05 9.325277e-05 3.108426e-05
## [90581] 5.180710e-05 1.036142e-05 3.108426e-05 4.144568e-05 1.139756e-04
## [90586] 0.000000e+00 3.108426e-05 1.243370e-04 0.000000e+00 0.000000e+00
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## [90596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [90616] 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00 7.252993e-05
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## [90626] 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [90636] 0.000000e+00 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
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## [90656] 0.000000e+00 3.108426e-05 9.325277e-05 9.325277e-05 0.000000e+00
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## [90666] 0.000000e+00 6.216851e-05 2.072284e-05 1.036142e-05 1.036142e-05
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## [90676] 9.325277e-05 7.252993e-05 7.252993e-05 8.289135e-05 1.036142e-04
## [90681] 8.289135e-05 7.252993e-05 0.000000e+00 2.072284e-05 9.325277e-05
## [90686] 8.289135e-05 2.072284e-04 9.325277e-05 1.865055e-04 5.180710e-05
## [90691] 0.000000e+00 1.036142e-05 2.072284e-05 1.036142e-05 1.036142e-05
## [90696] 2.072284e-05 1.346984e-04 1.139756e-04 7.252993e-05 3.108426e-05
## [90701] 7.252993e-05 5.180710e-05 0.000000e+00 4.144568e-05 1.243370e-04
## [90706] 4.144568e-05 2.072284e-05 2.383126e-04 1.554213e-04 5.180710e-05
## [90711] 6.216851e-05 2.072284e-05 1.036142e-05 9.325277e-05 2.072284e-05
## [90716] 7.252993e-05 7.252993e-05 2.072284e-05 7.252993e-05 6.216851e-05

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## [90736] 1.450599e-04 1.036142e-04 7.252993e-05 5.180710e-05 9.325277e-05
## [90741] 2.072284e-05 1.243370e-04 7.252993e-05 9.325277e-05 1.761441e-04
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## [90801] 6.216851e-05 3.108426e-05 0.000000e+00 3.108426e-05 9.325277e-05
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## [90831] 0.000000e+00 3.108426e-05 6.216851e-05 0.000000e+00 1.036142e-05
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## [90846] 1.036142e-04 5.180710e-05 0.000000e+00 4.144568e-05 9.325277e-05
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## [90866] 6.216851e-05 3.108426e-05 2.072284e-04 3.108426e-05 0.000000e+00
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## [90881] 0.000000e+00 3.108426e-05 0.000000e+00 1.036142e-05 1.036142e-05
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## [90891] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [90896] 0.000000e+00 1.036142e-05 3.108426e-05 5.180710e-05 0.000000e+00
## [90901] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [90966] 9.325277e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [90976] 0.000000e+00 2.486741e-04 0.000000e+00 0.000000e+00 1.036142e-05
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## [91131] 1.554213e-04 6.216851e-05 6.216851e-05 8.289135e-05 3.108426e-05
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## [93016] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 1.036142e-05
## [93021] 1.865055e-04 4.144568e-05 2.072284e-05 2.072284e-05 3.108426e-05
## [93026] 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [93031] 4.144568e-05 6.216851e-05 2.072284e-05 5.180710e-05 0.000000e+00
## [93036] 2.072284e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [93041] 1.036142e-05 1.036142e-05 4.144568e-05 0.000000e+00 3.108426e-05
## [93046] 0.000000e+00 2.072284e-05 2.072284e-05 2.072284e-05 1.036142e-05
## [93051] 3.108426e-05 2.072284e-05 3.108426e-05 0.000000e+00 8.289135e-05
## [93056] 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [93071] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [93076] 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
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## [93086] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [93091] 0.000000e+00 4.144568e-05 0.000000e+00 3.108426e-05 1.036142e-05
## [93096] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [93101] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [93111] 8.289135e-05 9.325277e-05 6.216851e-05 2.072284e-05 0.000000e+00
## [93116] 6.216851e-05 8.289135e-05 0.000000e+00 0.000000e+00 2.072284e-05
## [93121] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [93126] 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [93131] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [93136] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [93141] 0.000000e+00 5.180710e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [93146] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00

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## [93166] 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [93171] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05
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## [93186] 4.144568e-05 0.000000e+00 0.000000e+00 4.144568e-05 4.144568e-05
## [93191] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [93196] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 4.144568e-05
## [93201] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [93206] 1.036142e-05 8.289135e-05 9.325277e-05 0.000000e+00 1.036142e-05
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## [93231] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [93236] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [93241] 0.000000e+00 3.108426e-05 5.180710e-05 3.108426e-05 0.000000e+00
## [93246] 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00 2.072284e-05
## [93251] 5.180710e-05 0.000000e+00 0.000000e+00 2.072284e-05 7.252993e-05
## [93256] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [93271] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [93276] 0.000000e+00 2.072284e-05 2.072284e-05 4.144568e-05 1.036142e-05
## [93281] 6.216851e-05 1.036142e-05 9.325277e-05 3.108426e-05 0.000000e+00
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## [93396] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [93406] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [93416] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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## [93446] 0.000000e+00 5.180710e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [93456] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [93466] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [93476] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [93496] 0.000000e+00 1.450599e-04 2.072284e-05 0.000000e+00 0.000000e+00
## [93501] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05
## [93506] 6.216851e-05 3.108426e-05 0.000000e+00 2.072284e-05 0.000000e+00
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## [93516] 0.000000e+00 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00
## [93521] 0.000000e+00 0.000000e+00 5.180710e-05 2.072284e-05 0.000000e+00
## [93526] 0.000000e+00 0.000000e+00 2.072284e-05 2.072284e-05 0.000000e+00
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## [93536] 0.000000e+00 1.036142e-05 2.072284e-05 2.072284e-05 1.036142e-05
## [93541] 3.108426e-05 1.036142e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [93546] 6.216851e-05 2.072284e-05 0.000000e+00 7.252993e-05 9.325277e-05
## [93551] 9.325277e-05 3.108426e-05 0.000000e+00 1.554213e-04 1.036142e-05
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## [93566] 6.216851e-05 1.036142e-04 0.000000e+00 1.346984e-04 7.252993e-05
## [93571] 8.289135e-05 3.108426e-05 4.144568e-05 0.000000e+00 1.554213e-04
## [93576] 1.036142e-04 0.000000e+00 9.325277e-05 3.108426e-05 1.036142e-05
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## [93586] 1.450599e-04 1.036142e-05 7.252993e-05 2.072284e-05 4.144568e-05
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## [93626] 9.325277e-05 2.693969e-04 1.036142e-05 5.180710e-05 1.036142e-05
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## [93636] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
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## [93646] 1.036142e-05 2.072284e-05 1.036142e-05 4.144568e-05 5.180710e-05
## [93651] 6.216851e-05 6.216851e-05 6.216851e-05 2.072284e-05 2.072284e-05
## [93656] 2.072284e-05 4.144568e-05 0.000000e+00 3.108426e-05 0.000000e+00
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## [93666] 0.000000e+00 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00
## [93671] 0.000000e+00 5.180710e-05 1.243370e-04 2.072284e-05 3.108426e-05
## [93676] 3.108426e-05 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00
## [93681] 1.036142e-05 5.180710e-05 1.036142e-05 0.000000e+00 4.144568e-05
## [93686] 1.036142e-05 0.000000e+00 1.243370e-04 0.000000e+00 1.036142e-05

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## [93706] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 7.252993e-05
## [93711] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [93716] 5.180710e-05 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [93721] 8.289135e-05 2.072284e-05 1.036142e-05 3.108426e-05 1.036142e-05
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## [93736] 3.108426e-05 2.072284e-05 6.216851e-05 2.072284e-05 0.000000e+00
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## [93771] 5.180710e-05 7.252993e-05 8.289135e-05 4.144568e-05 0.000000e+00
## [93776] 0.000000e+00 3.108426e-05 0.000000e+00 8.289135e-05 3.108426e-05
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## [93816] 5.180710e-05 4.144568e-05 4.144568e-05 8.289135e-05 0.000000e+00
## [93821] 2.072284e-05 5.180710e-05 5.180710e-05 0.000000e+00 3.108426e-05
## [93826] 6.216851e-05 1.036142e-05 5.180710e-05 0.000000e+00 0.000000e+00
## [93831] 5.180710e-05 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00
## [93836] 1.036142e-05 1.036142e-05 1.036142e-05 9.325277e-05 2.072284e-05
## [93841] 0.000000e+00 1.450599e-04 2.072284e-05 0.000000e+00 3.108426e-05
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## [93851] 0.000000e+00 0.000000e+00 1.450599e-04 0.000000e+00 0.000000e+00
## [93856] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [93861] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [93866] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [93871] 0.000000e+00 0.000000e+00 3.108426e-05 5.180710e-05 1.243370e-04
## [93876] 9.325277e-05 6.216851e-05 1.036142e-04 0.000000e+00 7.252993e-05
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## [93916] 2.383126e-04 4.144568e-05 4.144568e-05 5.180710e-05 4.144568e-05
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## [93926] 1.243370e-04 0.000000e+00 1.036142e-04 7.252993e-05 1.761441e-04
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## [93936] 2.072284e-05 5.180710e-05 6.216851e-05 5.180710e-05 0.000000e+00
## [93941] 1.036142e-05 2.072284e-05 0.000000e+00 1.036142e-05 5.180710e-05
## [93946] 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00
## [93951] 1.036142e-05 0.000000e+00 1.346984e-04 1.036142e-04 2.072284e-05
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## [94926] 0.000000e+00 7.252993e-05 3.108426e-05 0.000000e+00 1.036142e-05
## [94931] 0.000000e+00 4.144568e-05 0.000000e+00 1.036142e-05 2.072284e-05
## [94936] 0.000000e+00 0.000000e+00 3.108426e-05 0.000000e+00 0.000000e+00
## [94941] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [94946] 0.000000e+00 3.108426e-05 0.000000e+00 1.243370e-04 7.252993e-05
## [94951] 1.865055e-04 8.289135e-05 5.180710e-05 4.144568e-05 2.072284e-05
## [94956] 0.000000e+00 0.000000e+00 1.036142e-05 3.108426e-05 0.000000e+00
## [94961] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [94966] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [94976] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [94991] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [95001] 1.036142e-05 2.072284e-05 0.000000e+00 2.072284e-05 6.216851e-05
## [95006] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [95011] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [95016] 0.000000e+00 0.000000e+00 3.108426e-05 4.144568e-05 2.072284e-05
## [95021] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [95026] 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [95031] 0.000000e+00 6.216851e-05 0.000000e+00 2.072284e-05 5.180710e-05
## [95036] 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

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## [95056] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
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## [95066] 0.000000e+00 5.180710e-05 1.036142e-05 0.000000e+00 0.000000e+00
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## [95076] 0.000000e+00 8.289135e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [95081] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [95216] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05
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## [95236] 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00 5.180710e-05
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## [95246] 0.000000e+00 1.036142e-05 0.000000e+00 4.144568e-05 0.000000e+00
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## [95256] 0.000000e+00 4.144568e-05 2.072284e-05 5.180710e-05 4.144568e-05
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## [95266] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 5.180710e-05
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## [97456] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [97466] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00

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## [97516] 0.000000e+00 3.108426e-05 4.144568e-05 0.000000e+00 0.000000e+00
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## [97526] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [97776] 5.180710e-05 5.180710e-05 1.243370e-04 0.000000e+00 1.036142e-05
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## [97791] 1.657827e-04 1.243370e-04 3.108426e-05 1.036142e-05 3.108426e-05
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## [97961] 0.000000e+00 6.216851e-05 1.036142e-05 5.180710e-05 1.761441e-04
## [97966] 8.289135e-05 2.072284e-05 0.000000e+00 0.000000e+00 3.108426e-05
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## [97976] 4.144568e-05 4.144568e-05 2.072284e-05 3.108426e-05 3.108426e-05
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## [97986] 4.144568e-05 2.072284e-05 0.000000e+00 7.252993e-05 4.144568e-05
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## [98421] 0.000000e+00 9.325277e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [98426] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
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## [98436] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [98516] 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
## [98521] 5.180710e-05 2.072284e-05 2.072284e-05 1.036142e-04 5.180710e-05
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## [98541] 0.000000e+00 5.180710e-05 0.000000e+00 1.036142e-05 0.000000e+00
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## [98561] 6.216851e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [98566] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
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## [98581] 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05 1.036142e-05
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## [98596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
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## [98626] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
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## [99406] 1.243370e-04 0.000000e+00 3.108426e-05 6.216851e-05 4.144568e-05
## [99411] 2.072284e-05 1.036142e-05 3.108426e-05 0.000000e+00 0.000000e+00
## [99416] 1.036142e-05 3.108426e-05 1.036142e-05 5.180710e-05 6.216851e-05
## [99421] 3.108426e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99426] 0.000000e+00 1.657827e-04 0.000000e+00 0.000000e+00 0.000000e+00
## [99431] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99436] 3.108426e-05 4.144568e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99441] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [99446] 6.216851e-05 1.036142e-05 4.144568e-05 2.072284e-05 1.036142e-05
## [99451] 3.108426e-05 0.000000e+00 2.072284e-05 1.036142e-05 1.036142e-05
## [99456] 1.036142e-05 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99461] 5.180710e-05 8.289135e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [99466] 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00 0.000000e+00
## [99471] 0.000000e+00 0.000000e+00 2.072284e-05 1.036142e-05 0.000000e+00
## [99476] 3.108426e-05 7.252993e-05 0.000000e+00 2.072284e-05 0.000000e+00
## [99481] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [99486] 2.072284e-05 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [99491] 2.072284e-05 1.036142e-05 2.072284e-05 6.216851e-05 1.036142e-05
## [99496] 0.000000e+00 1.036142e-05 8.289135e-05 0.000000e+00 1.036142e-05
## [99501] 3.108426e-05 3.108426e-05 0.000000e+00 1.036142e-05 1.036142e-05
## [99506] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [99511] 2.072284e-05 8.289135e-05 7.252993e-05 4.144568e-05 0.000000e+00
## [99516] 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99521] 1.036142e-05 5.180710e-05 1.036142e-05 2.072284e-05 0.000000e+00
## [99526] 0.000000e+00 1.036142e-05 2.072284e-05 0.000000e+00 1.036142e-05
## [99531] 2.072284e-05 2.072284e-05 2.072284e-05 2.072284e-05 2.072284e-05
## [99536] 4.144568e-05 0.000000e+00 1.036142e-05 1.036142e-05 1.036142e-05
## [99541] 3.108426e-05 0.000000e+00 3.108426e-05 1.036142e-04 2.072284e-05
## [99546] 2.072284e-05 3.108426e-05 0.000000e+00 5.180710e-05 4.144568e-05
## [99551] 3.108426e-05 5.180710e-05 4.144568e-05 4.144568e-05 0.000000e+00
## [99556] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99561] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99566] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99571] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 4.144568e-05
## [99576] 0.000000e+00 9.325277e-05 1.036142e-05 2.072284e-05 1.036142e-05
## [99581] 1.036142e-05 0.000000e+00 3.108426e-05 1.036142e-05 4.144568e-05
## [99586] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 2.072284e-05
## [99591] 9.325277e-05 2.072284e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [99596] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [99601] 0.000000e+00 1.036142e-05 4.144568e-05 1.036142e-05 3.108426e-05
## [99606] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 3.108426e-05
## [99611] 0.000000e+00 0.000000e+00 8.289135e-05 4.144568e-05 0.000000e+00
## [99616] 2.072284e-05 3.108426e-05 1.036142e-05 0.000000e+00 0.000000e+00
## [99621] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99626] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00

```

```

## [99631] 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00 2.072284e-05
## [99636] 0.000000e+00 0.000000e+00 5.180710e-05 0.000000e+00 0.000000e+00
## [99641] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99646] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 5.180710e-05
## [99651] 2.072284e-05 1.036142e-04 6.216851e-05 1.036142e-05 0.000000e+00
## [99656] 3.108426e-05 1.036142e-05 0.000000e+00 4.144568e-05 8.289135e-05
## [99661] 1.036142e-05 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [99666] 0.000000e+00 2.072284e-05 3.108426e-05 0.000000e+00 2.072284e-05
## [99671] 0.000000e+00 1.036142e-05 1.036142e-05 5.180710e-05 0.000000e+00
## [99676] 0.000000e+00 0.000000e+00 5.180710e-05 1.036142e-05 4.144568e-05
## [99681] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99686] 2.072284e-05 0.000000e+00 1.036142e-05 0.000000e+00 1.036142e-05
## [99691] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99696] 0.000000e+00 2.072284e-05 4.144568e-05 3.108426e-05 1.036142e-05
## [99701] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 0.000000e+00
## [99706] 1.036142e-05 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [99711] 0.000000e+00 3.108426e-05 0.000000e+00 4.144568e-05 0.000000e+00
## [99716] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 0.000000e+00
## [99721] 0.000000e+00 2.072284e-05 1.139756e-04 0.000000e+00 0.000000e+00
## [99726] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99731] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 1.036142e-05
## [99736] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99741] 2.072284e-05 2.072284e-05 6.216851e-05 0.000000e+00 0.000000e+00
## [99746] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [99751] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99756] 5.180710e-05 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [99761] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [99766] 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-04 1.968670e-04
## [99771] 8.289135e-05 6.216851e-05 3.108426e-05 0.000000e+00 2.072284e-05
## [99776] 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99781] 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00 0.000000e+00
## [99786] 0.000000e+00 1.036142e-05 0.000000e+00 9.325277e-05 5.180710e-05
## [99791] 4.144568e-05 1.036142e-05 9.325277e-05 3.108426e-05 1.036142e-05
## [99796] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05
## [99801] 7.252993e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.036142e-05
## [99806] 4.144568e-05 7.252993e-05 2.072284e-05 5.180710e-05 7.252993e-05
## [99811] 0.000000e+00 1.036142e-05 1.139756e-04 2.072284e-05 2.072284e-05
## [99816] 0.000000e+00 0.000000e+00 4.144568e-05 6.216851e-05 2.072284e-05
## [99821] 4.144568e-05 6.216851e-05 0.000000e+00 0.000000e+00 7.252993e-05
## [99826] 1.036142e-05 4.144568e-05 0.000000e+00 1.036142e-05 0.000000e+00
## [99831] 0.000000e+00 8.289135e-05 5.180710e-05 5.180710e-05 0.000000e+00
## [99836] 0.000000e+00 2.072284e-05 0.000000e+00 6.216851e-05 1.243370e-04
## [99841] 1.243370e-04 0.000000e+00 1.036142e-05 0.000000e+00 0.000000e+00
## [99846] 0.000000e+00 9.325277e-05 6.216851e-05 7.252993e-05 1.036142e-04
## [99851] 5.180710e-05 6.216851e-05 0.000000e+00 1.036142e-04 4.144568e-05
## [99856] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99861] 0.000000e+00 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00
## [99866] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99871] 3.108426e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.657827e-04
## [99876] 0.000000e+00 0.000000e+00 2.072284e-05 3.108426e-05 1.036142e-04
## [99881] 0.000000e+00 0.000000e+00 0.000000e+00 4.144568e-05 4.144568e-05
## [99886] 2.072284e-05 1.243370e-04 1.036142e-05 0.000000e+00 2.072284e-05
## [99891] 2.072284e-05 3.108426e-05 2.072284e-05 2.072284e-05 1.036142e-05
## [99896] 4.144568e-05 0.000000e+00 2.072284e-05 6.216851e-05 5.180710e-05

```

```
## [99901] 2.072284e-05 6.216851e-05 0.000000e+00 0.000000e+00 3.108426e-05
## [99906] 2.072284e-05 1.036142e-05 1.243370e-04 8.289135e-05 2.072284e-05
## [99911] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 0.000000e+00
## [99916] 1.036142e-05 0.000000e+00 0.000000e+00 4.144568e-05 1.036142e-05
## [99921] 9.325277e-05 0.000000e+00 3.108426e-05 1.036142e-05 6.216851e-05
## [99926] 3.108426e-05 2.072284e-05 0.000000e+00 7.252993e-05 5.180710e-05
## [99931] 5.180710e-05 3.108426e-05 3.108426e-05 9.325277e-05 1.346984e-04
## [99936] 5.180710e-05 9.325277e-05 3.108426e-05 0.000000e+00 5.180710e-05
## [99941] 2.072284e-05 7.252993e-05 1.036142e-04 2.072284e-05 2.072284e-05
## [99946] 0.000000e+00 3.108426e-05 9.325277e-05 0.000000e+00 1.036142e-05
## [99951] 8.289135e-05 1.865055e-04 0.000000e+00 0.000000e+00 0.000000e+00
## [99956] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## [99961] 0.000000e+00 0.000000e+00 2.072284e-05 0.000000e+00 1.036142e-05
## [99966] 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.216851e-05
## [99971] 3.108426e-05 1.036142e-05 7.252993e-05 4.144568e-05 0.000000e+00
## [99976] 3.108426e-05 0.000000e+00 0.000000e+00 6.216851e-05 6.216851e-05
## [99981] 3.108426e-05 1.036142e-05 2.072284e-05 1.036142e-05 8.289135e-05
## [99986] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05 0.000000e+00
## [99991] 3.108426e-05 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [99996] 0.000000e+00 0.000000e+00 1.036142e-05 1.036142e-05
## [ reached getOption("max.print") -- omitted 2361838 entries ]

## 0.97 sec elapsed
```

**2C.** Please explain the differences between these methods in terms of implementation, readability, and computation time. Using your own experiences in the workplace (or speculation of experiences for a job you would like to have), how might these differences be significant and what impact would they have?

**Question 3** - Apply vs loops use the large\_list data set.

**3A.** Use apply to assign a new variable, mean\_list\_apply, the mean of each vector in large\_list.

```
## A matrix
## [1] 2461837

## sample_a
## 19449778

## sample_a
## 7.900514

## [1] 7.900514

## B matrix
## [1] 2461837

## sample_b
## 31541140

## C matrix
## [1] 2461837

## sample_c
## 22275700

## Time lapse

## 0.21 sec elapsed
```

**3B.** Use for loop to assign a new variable, mean\_list\_for, the mean of each vector in large\_list.

```
## [1] "Mean of the list"
## [1] 9.920318
## [1] "A - check Mean Function"
## [1] 9.920318
## [1] "B - check Mean Function"
## [1] 9.920318
## 6.46 sec elapsed
```

**3C.** Please explain the differences between these methods in terms of implementation, readability, and computation time. Were these differences surprising? How do you predict these differences will change if we used lists with much more elements (i.e.  $\text{length}(\text{list}) > 1000$ )?

```
## -----
```

## Part 2: Control

Controlling flow is important for manipulating data based on their values. We show how easy R makes control and iteration by comparing the Un-R way with the R way. The Un-R way uses for loops and if/else statements while the R way uses proper subsetting and vectorization. Let's explore these differences. use the `large_vector` data set.

### Question 4 - Doing it the Un-R way

**4A.** Use the Un-R way, with a for loop and if/else statements, to assign a new variable, `nbr_zeros_loop`, as the number of zeros that are in `large_vector`. Print the value of this variable.

**4B.** Use the Un-R way, with a for loop and if/else statements, to assign a new variable, `smaller_vector_loop`, as all the values of `large_vector` that are not equal to zero. Vectorized functions (i.e. `na.omit`) are permitted but a for loop must be used to iterate through vector. Show that the sum of `nbr_zeros_loop` and the length of `smaller_vector_loop` are equal to the length of `large_vector`.

### Question 5 - Doing it the R-way use the `large_vector` data set.

**5A.** Use the R way, proper subsetting and vectorized functions, to assign a new variable, `nbr_zeros`, as the number of zeros that are in `large_vector`. Print this variable. Show that `nbr_zeros` and `nbr_zeros_loop` are equal.

**5B.** Use the R way, proper subsetting and vectorized functions, to assign a new variable, `smaller_vector`, as all the values of `large_vector` that are not equal to zero. Show that the sum of `nbr_zeros` and the length of `smaller_vector` are equal to the length of `large_vector`.