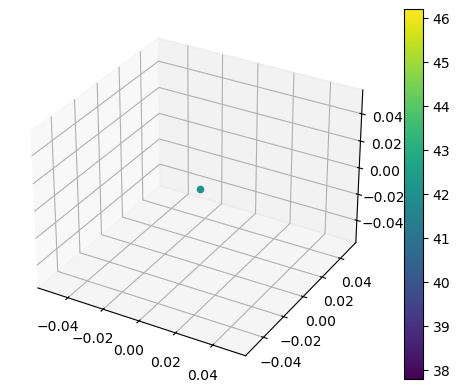
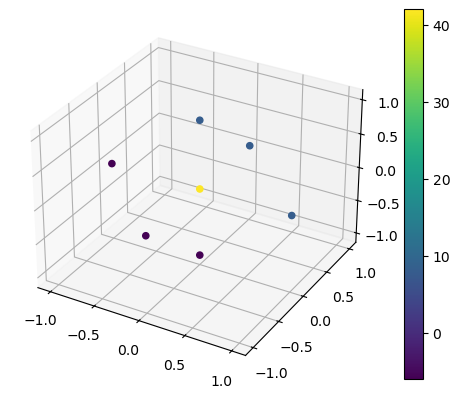
An integer diffusion model interacting with each other at a distance of 1 in a three-dimensional vertical discrete space

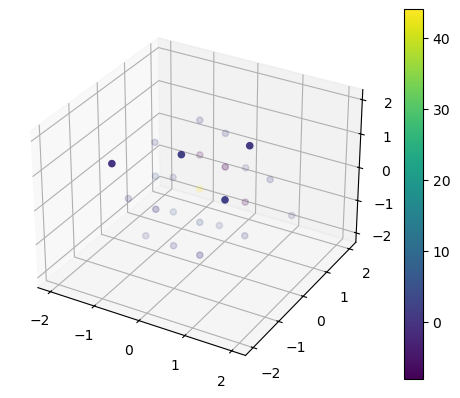
An experiment was conducted in a CPU based Jupyter environment, and the results were as follows:

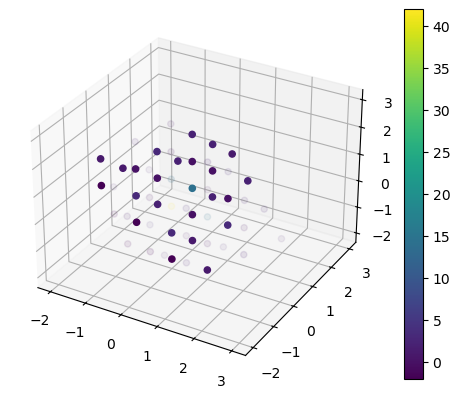
Please enter the initial value of the simulation origin: 42

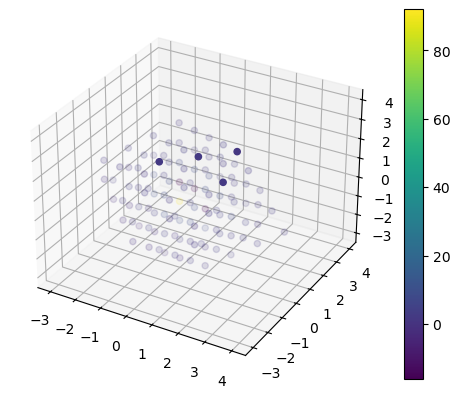
Maximum frame rate during runtime: 25

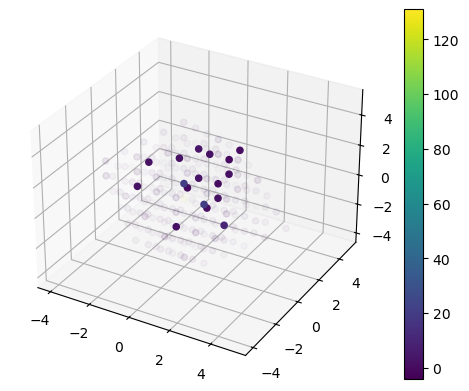


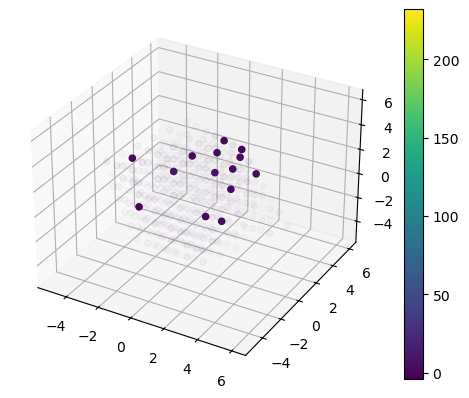


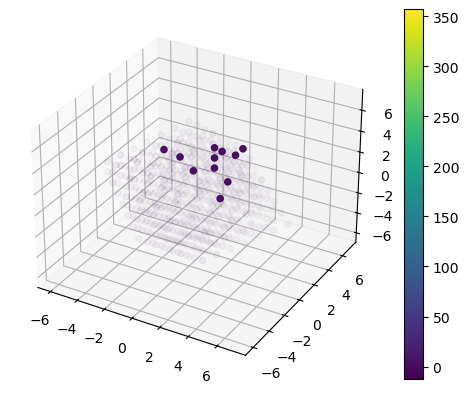


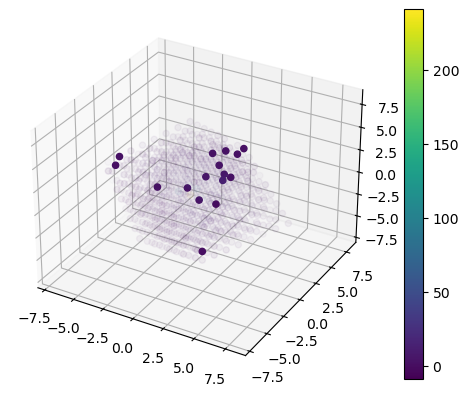


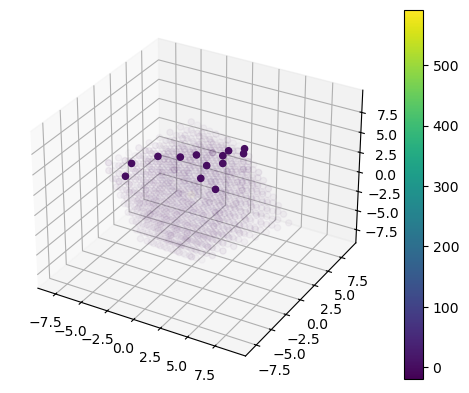


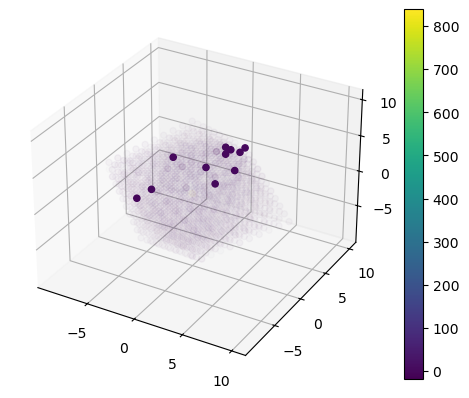


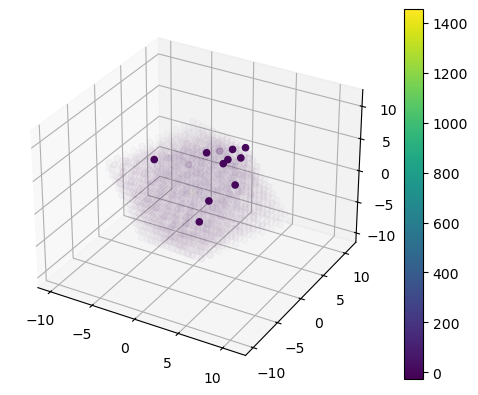


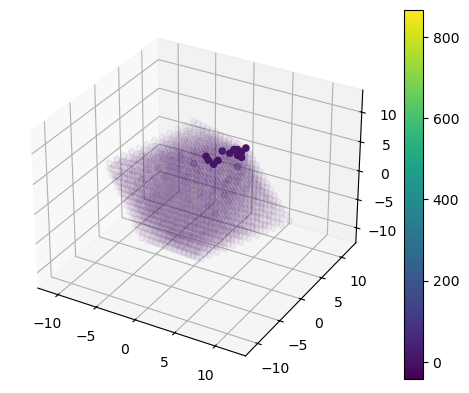


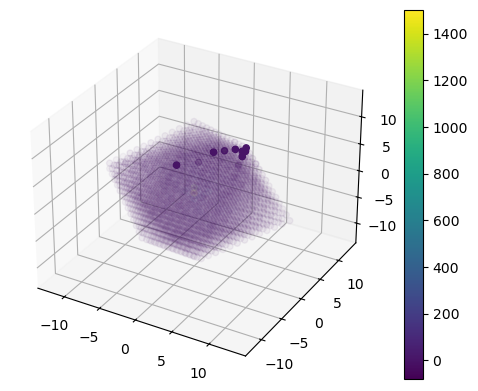


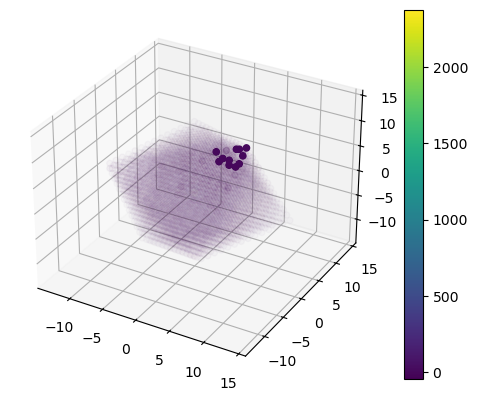


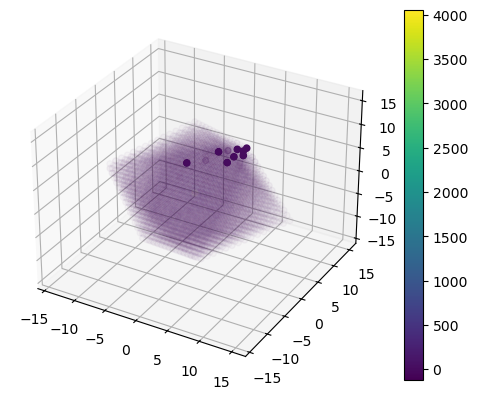


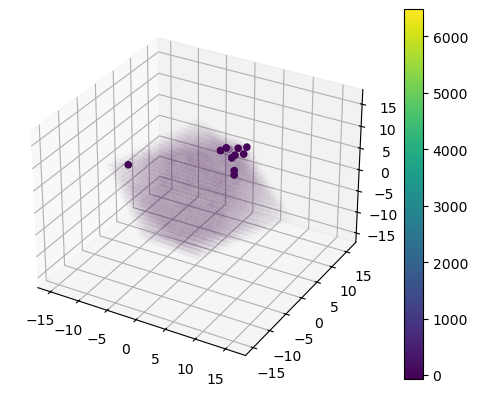


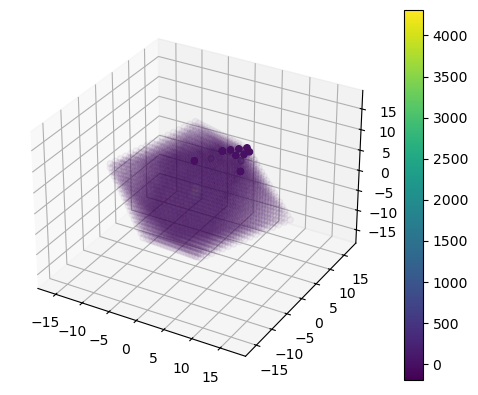


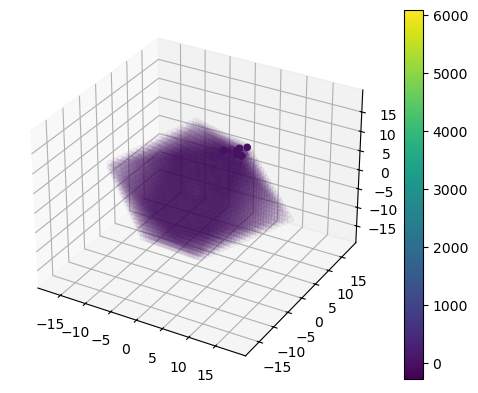


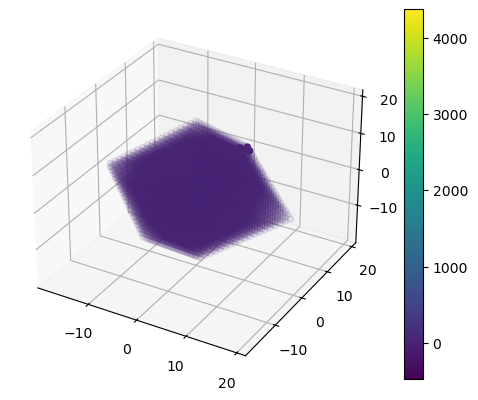


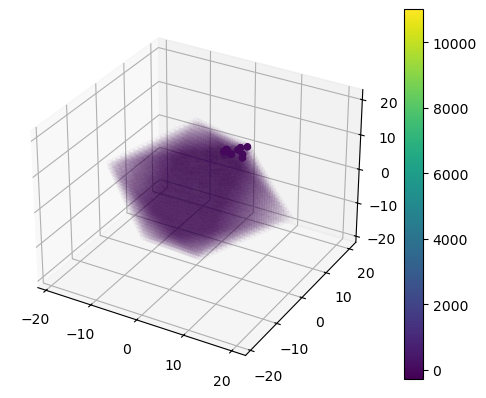


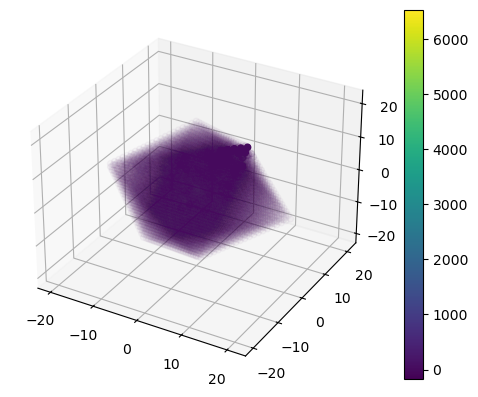


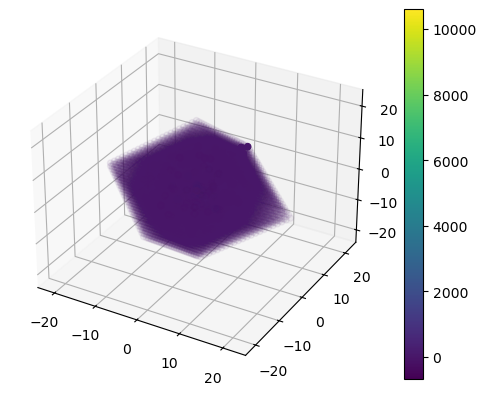


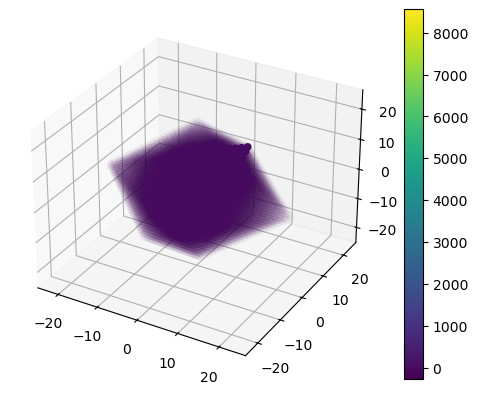


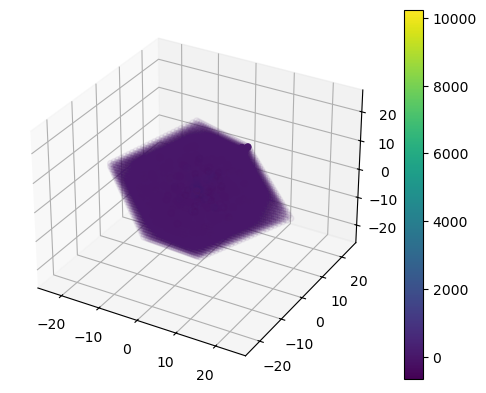


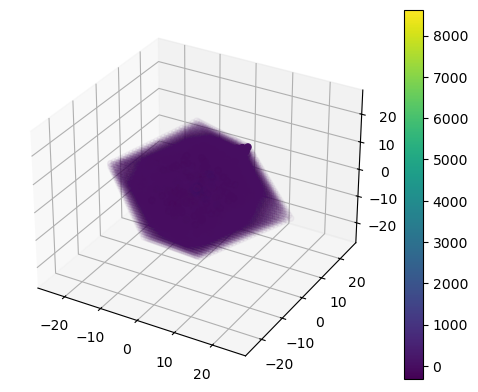












**The code is as follows：**

from collections import Counter

import numpy as np

import math

import matplotlib.pyplot as plt

from mpl\_toolkits.mplot3d import Axes3D

Num\_initial = int(input('Please enter the initial value of the simulation origin: '))

Time\_max = int(input('Maximum frame rate during runtime: '))

# Initialize Dictionary

dict\_0 = Counter({(0, 0, 0): Num\_initial})

dict\_1 = Counter({})

dict\_add = Counter({})

# The function that generates new elements of dict\_add

def generate\_dict\_add(t):

new\_dict\_add = Counter({})

for X in range(-t-1, t+2):

for Y in range(-t-1, t+2):

for Z in range(-t-1, t+2):

if abs(X) + abs(Y) + abs(Z) == t:

new\_dict\_add[(X, Y, Z)] += 0

return new\_dict\_add

# Update the auxiliary function of dict\_add

def update\_dict\_add(dict\_now,t):

current\_dict = dict\_now + generate\_dict\_add(t)

if t % 2 == 1:

for (x, y, z), n in dict\_now.items():

if n % 6 == 0 and n != 0:

k = n // 6

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] = (k if (dx, dy, dz) in [(1, 0, 0), (0, 1, 0), (0, 0, 1)] else -k)

if (x + y + z) % 2 == 0 and n != 0:

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] += 1

if (x + y + z) % 2 == 1 and n != 0:

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] -= 1

if n % 6 == 3 and n != 3:

k = n // 6

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] += k

current\_dict[(x, y, z)] -= n

if t % 2 == 0:

for (x, y, z), n in dict\_now.items():

if n % 6 == 0 and n != 0:

k = n // 6

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] = (-k if (dx, dy, dz) in [(1, 0, 0), (0, 1, 0), (0, 0, 1)] else k)

if (x + y + z) % 2 == 0 and n != 0:

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] -= 1

if (x + y + z) % 2 == 1 and n != 0:

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] += 1

if n % 6 == 3 and n != 3:

k = n // 6

for dx, dy, dz in [(1, 0, 0), (0, 1, 0), (0, 0, 1), (-1, 0, 0), (0, -1, 0), (0, 0, -1)]:

current\_dict[(x+dx, y+dy, z+dz)] += k

current\_dict[(x, y, z)] -= n

return current\_dict

# Visualization function

def visualize\_data(data\_dict):

fig = plt.figure()

ax = fig.add\_subplot(111, projection='3d')

xs = []

ys = []

zs = []

values = []

alphas = []

for (x, y, z), value in data\_dict.items():

xs.append(x)

ys.append(y)

zs.append(z)

values.append(value)

max\_value = np.max(values)

min\_value = np.min(values)

alpha = ((value - min\_value ) / (max\_value - min\_value + 1) if value - min\_value != 0 else 1) alphas.append(alpha)

sc = ax.scatter(xs, ys, zs, c=values, cmap='viridis', alpha=alphas, marker='o')

for i, (x, y, z) in enumerate(zip(xs, ys, zs)):

sc.\_facecolors[i, -1] = alphas[i]

sc.\_edgecolors[i, -1] = alphas[i]

plt.colorbar(sc)

plt.show()

# Create a scatter plot using a transparency array

sc = ax.scatter(xs, ys, zs, c=values, cmap='viridis', alpha=alphas, marker='o')

# Set transparency for each point

for i, (x, y, z) in enumerate(zip(xs, ys, zs)):

sc.\_facecolors[i, -1] = alphas[i]

sc.\_edgecolors[i, -1] = alphas[i]

plt.colorbar(sc)

plt.show()

# Main cycle

for t in range( Time\_max + 1):

if t % 2 == 1:

dict\_add = update\_dict\_add(dict\_0, t)

for key, value in dict\_add.items():

if key in dict\_add:

dict\_1[key] += value

else:

dict\_1[key] = value

visualize\_data(dict\_1)

else :

dict\_add = update\_dict\_add(dict\_1, t)

for key, value in dict\_add.items():

if key in dict\_add:

dict\_0[key] += value

else:

dict\_0[key] = value

visualize\_data(dict\_0)

# Visualize the final result

if Time\_max % 2 == 0:

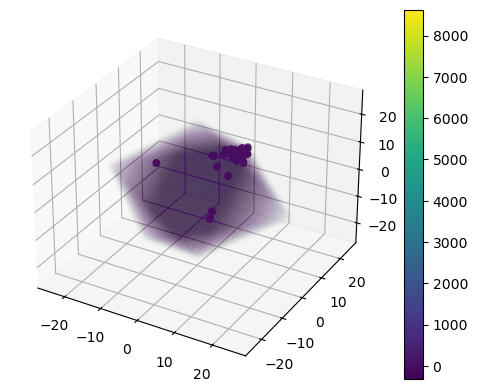
print(dict\_0)

if Time\_max % 2 == 1:

print(dict\_1)

If the alpha code is changed to

alpha = ( 1/(1 + np.exp( -3 + 8 \*((1/(1+np.exp(((-0.5 \* max\_value + value )/(0.1\* max\_value - value - min\_value )if value - min\_value != 0 else 1))))))))

On the last image, the following image can be generated:

If parameter adjustments are made and patterns are summarized based on this, it may be possible to highlight specific range of numerical values related to grid groups on the image.

The complete data is as follows:

Counter({(0, 0, 1): 8629, (0, 1, 0): 5844, (0, 0, -1): 5424, (0, 0, 2): 4277, (0, 0, 0): 3762, (1, 0, 0): 3148, (0, 1, 1): 2389, (1, 5, 3): 2165, (0, -1, 0): 2137, (2, 0, -2): 1784, (-1, 0, 0): 1708, (-1, 0, 1): 1697, (1, 6, 1): 1475, (2, 0, 1): 1431, (1, 4, 4): 1367, (0, -1, 1): 1263, (2, 1, -3): 1255, (3, 0, 0): 1242, (0, 2, -5): 1186, (-1, -1, 0): 1172, (1, 0, 4): 1131, (6, -1, -2): 1110, (1, -2, 1): 1067, (4, 0, 4): 1056, (0, 7, 0): 1022, (1, 0, 1): 989, (-1, 7, -1): 988, (0, 5, 0): 952, (2, -4, -3): 941, (2, 1, 4): 892, (-3, 2, 4): 890, (1, 0, -2): 889, (-2, 3, 0): 863, (1, 2, 4): 819, (-1, 8, 0): 819, (1, 7, 0): 793, (-1, -4, 0): 787, (6, 0, -3): 782, (-2, 5, -2): 779, (1, 4, 0): 777, (1, -2, 3): 777, (-2, 0, 3): 750, (1, 1, -1): 745, (9, 0, 0): 745, (7, 0, 0): 740, (6, 0, 1): 734, (7, -1, -1): 733, (-1, 6, 4): 733, (0, 2, 0): 725, (-1, 1, 4): 722, (1, -2, 0): 715, (0, 0, 4): 710, (5, -1, -3): 709, (2, -3, -1): 697, (-1, 1, -1): 695, (0, 1, 8): 691, (3, 0, 4): 684, (9, 0, -2): 665, (7, -2, 4): 663, (-2, 0, 2): 662, (2, -1, -2): 662, (-2, 6, -3): 661, (-1, 2, 0): 660, (2, 3, 4): 656, (-3, 8, 0): 655, (1, 5, 0): 644, (-4, 8, 1): 644, (0, 0, 5): 637, (-1, -1, 7): 631, (0, -1, -1): 623, (-2, 4, 0): 619, (1, 0, 8): 618, (9, -2, 0): 612, (-1, 1, -8): 611, (3, 8, 0): 611, (0, 1, -3): 602, (-4, 9, 0): 601, (1, 1, 0): 600, (1, 0, 3): 591, (1, 1, -3): 587, (0, 1, 5): 586, (0, 5, 1): 582, (2, 2, -2): 577, (2, -1, 0): 574, (0, 0, -2): 568, (3, 3, 0): 555, (0, -4, 4): 549, (0, 4, -1): 547, (1, 1, -4): 546, (-2, -3, 6): 542, (7, 4, 0): 541, (-1, 1, 2): 535, (2, 0, 3): 535, (-2, 1, -3): 526, (-1, 4, 0): 523, (3, -7, -1): 523, (-8, -1, 0): 521, (3, 0, 3): 515, (1, -1, 2): 511, (-4, 0, -2): 508, (1, -1, -1): 507, (2, 0, 4): 506, (2, 0, -3): 505, (-1, 0, -1): 501, (2, 8, 1): 498, (0, -6, 1): 494, (2, 1, 2): 490, (0, 1, 2): 489, (5, 0, 5): 486, (1, 2, -1): 482, (1, -1, 4): 482, (11, 0, 0): 481, (-3, -4, 8): 473, (-2, 12, -1): 471, (3, -5, 0): 464, (-5, 2, -4): 462, (-2, 0, 4): 461, (2, -1, 4): 461, (-2, -6, 3): 461, (-2, 10, -1): 459, (2, 0, -7): 450, (0, 2, 6): 446, (9, -3, -1): 445, (-1, -6, 1): 441, (5, -2, 0): 439, (0, -2, 0): 437, (1, -2, 4): 428, (-2, 1, 0): 427, (4, -1, 4): 426, (-2, -2, 7): 426, (0, 4, 9): 425, (7, 0, -2): 422, (0, 5, 4): 416, (6, 5, 0): 412, (-3, -3, 7): 412, (0, 0, 3): 410, (1, 2, -4): 407, (1, -1, 1): 405, (4, -2, 0): 405, (12, -3, 0): 404, (2, 4, 1): 402, (-2, 2, -1): 399, (-2, 9, 0): 399, (0, -1, 2): 397, (7, 1, 1): 397, (7, -4, 0): 394, (2, -2, -1): 393, (4, -5, -1): 392, (7, 0, 8): 392, (2, 5, 2): 390, (5, -5, -3): 390, (0, 3, 8): 388, (9, -6, 0): 388, (4, 0, 3): 387, (-7, 1, -3): 384, (8, 0, -1): 383, (6, -1, 4): 381, (1, -5, 1): 380, (3, -3, 0): 379, (0, 0, 10): 375, (7, 1, 3): 374, (0, 1, -2): 370, (-2, 1, 3): 364, (-3, -2, 3): 364, (1, 3, 1): 363, (-7, 2, 4): 363, (3, -4, -1): 362, (1, -3, 0): 360, (0, -1, -2): 360, (0, 1, 4): 360, (8, 0, 1): 360, (-1, 11, -1): 360, (1, 8, 0): 358, (-4, 2, 1): 357, (6, 0, 4): 357, (1, 1, 1): 355, (1, -3, 1): 355, (0, -1, 4): 355, (-2, 2, 0): 353, (-4, 6, 1): 353, (0, 4, 3): 352, (-5, 3, -4): 350, (0, 5, 2): 349, (-6, 3, -2): 348, (1, 1, 3): 346, (0, 8, -1): 346, (8, -2, -1): 340, (0, 4, -6): 338, (7, -6, 0): 338, (-6, 7, 0): 338, (0, 3, 0): 335, (4, -1, 8): 335, (-3, 0, 3): 334, (0, -1, 3): 332, (-2, 1, 4): 332, (9, -1, -1): 330, (2, 5, 3): 328, (3, 0, 1): 326, (2, 8, -1): 325, (3, -1, -1): 324, (6, 0, 3): 324, (-1, 3, 4): 323, (0, -5, 3): 323, (3, 9, 1): 323, (4, 5, -6): 323, (-5, 4, -1): 321, (1, 2, 0): 320, (-4, 1, 0): 320, (3, 0, 8): 320, (-3, 1, 5): 319, (6, -1, -3): 319, (-6, 3, -3): 318, (6, -1, 0): 317, (8, -5, 0): 317, (5, 0, 4): 316, (4, 1, 4): 316, (-4, 0, 4): 315, (4, 0, 1): 314, (2, -2, 0): 313, (0, 4, 5): 313, (0, 2, -2): 312, (-2, 2, 5): 312, (1, 0, -9): 312, (5, -1, 4): 311, (-2, 11, 0): 311, (5, -1, 1): 310, (-5, 3, 0): 309, (5, -2, -2): 308, (0, 3, 6): 308, (-3, 0, 4): 306, (5, -1, -2): 305, (-2, 7, 0): 305, (0, 3, -4): 303, (-5, 3, 4): 303, (0, 2, 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The shape of the space will be a regular octahedron, and if it is within that space, it will be a perfect spherical space.

Our universe may also be constructed in a similar way, for the following reasons:

1. If space is quantized and the range of interaction over time is 1, then according to Einstein's slow scaling effect in special relativity, the interaction speed can be deduced to be several times the natural speed of light.

2. If a numerical group with specific characteristics can maintain stable existence, it may form a quasi particle state.

3. If the universe did indeed originate from the Big Bang, this algorithm and similar algorithms can achieve high-density formation around the origin.

4. A relatively stable spatial lattice group contains a large number of intersecting 0 or 3.

5. The interaction between particles, particle swarm, and space may form a gravitational like effect, while the other three fundamental forces may form under the interaction of adjacent spatial lattice points.

6. If new particles are constantly generated in the outer space, gravity can achieve the distance of the vast majority of galaxies in the visible universe, or explain dark energy.

7. The irregular arrangement of chaotic numerical values in lattice space may contribute to the formation of gravity and heat, or explain dark matter.

During the preparation of this work the author(s) used NextChatGPT and MiniMax in order to write code. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication.