

clusteringmodel

April 19, 2024

1 Week 9-1: Unsupervised Machine Learning

Van Pjotr en Sennen.

Deze week hebben we het over ongesuperviseerde machine learning. Dit is een vorm van machine learning waarbij we geen gelabelde data hebben. Dit betekent dat we geen data hebben waarbij we weten wat de juiste output is. In plaats daarvan gaan we op zoek naar patronen in de data. Dit kan bijvoorbeeld zijn dat we clusters van data vinden, of dat we de data kunnen reduceren naar een kleinere dimensie.

Maar deze keer gaan we clustering gebruiken, een techniek waarbij we data in groepen verdelen. Dit kan bijvoorbeeld handig zijn als we een dataset hebben met verschillende soorten bloemen, en we willen weten welke bloemen bij elkaar horen. Of als we een dataset hebben met verschillende soorten klanten, en we willen weten welke klanten bij elkaar horen.

PR9-1: Great Outdoors wil graag weten in welke segmenten verkoopafdelingen ('sales_branches') opgedeeld kan worden. Er bestaan al retailersegmenten (table 'retailer_segment'), Great Outdoors wil dus óók segmenten creëren voor verkoopafdelingen: - Pas waar nodig Dummy Encoding toe. - Train het initiële clustermodel. - Experimenteer met meerdere k's door het berekenen van de inter- en intracusterafstand.

Maar eerst een voorbeeld met de titanic.

1.1 Bibliotheken importeren

```
[ ]: import pandas as pd
import sqlite3
from sklearn.cluster import KMeans
import math
import matplotlib.pyplot as plt
import warnings
import numpy as np
warnings.simplefilter('ignore')
```

1.2 Data inlezen en kolommen selecteren

```
[ ]: df = pd.read_csv("data/titanic2.csv", sep = ';')
df = df.filter(regex='^(?!Unnamed).*')
df
```

```
[ ]: PassengerId  Pclass                                Name \
0          1         3                        Braund; Mr. Owen Harris
1          2         1  Cumings; Mrs. John Bradley (Florence Briggs Th...
2          3         3                        Heikkinen; Miss. Laina
3          4         1      Futrelle; Mrs. Jacques Heath (Lily May Peel)
4          5         3                        Allen; Mr. William Henry
..          ...      ...
886        887        2                        Montvila; Rev. Juozas
887        888        1                        Graham; Miss. Margaret Edith
888        889        3      Johnston; Miss. Catherine Helen "Carrie"
889        890        1                        Behr; Mr. Karl Howell
890        891        3                        Dooley; Mr. Patrick

      Sex  SibSp  Parch      Ticket      Fare Cabin Embarked  Survived \
0    male     1     0      A/5 21171      7.25   NaN      S      0
1  female     1     0      PC 17599  712.833   C85      C      1
2  female     0     0  STON/O2. 3101282    7.925   NaN      S      1
3  female     1     0      113803    53.1   C123      S      1
4    male     0     0      373450     8.05   NaN      S      0
..      ...      ...      ...      ...      ...      ...
886   male     0     0      211536     13   NaN      S      0
887  female     0     0      112053     30   B42      S      1
888  female     1     2      W./C. 6607    23.45   NaN      S      0
889   male     0     0      111369     30   C148      C      1
890   male     0     0      370376     7.75   NaN      Q      0

      Age
0     22
1     38
2     26
3     35
4     35
..      ...
886    27
887    19
888    15
889    26
890    32
```

[891 rows x 12 columns]

```
[ ]: df = df.loc[:, ['Pclass', 'Sex', 'Age', 'Survived']]
df
```

```
[ ]: Pclass      Sex  Age  Survived
0         3    male   22         0
1         1  female   38         1
```

2	3	female	26	1
3	1	female	35	1
4	3	male	35	0
..
886	2	male	27	0
887	1	female	19	1
888	3	female	15	0
889	1	male	26	1
890	3	male	32	0

[891 rows x 4 columns]

1.3 One-hot encoding van onafhankelijke niet-numerieke variabelen

```
[ ]: df['Pclass'] = df['Pclass'].astype(str)
df.dtypes
```

```
[ ]: Pclass      object
Sex           object
Age           int64
Survived      int64
dtype: object
```

```
[ ]: dummies_dataframe = pd.get_dummies(df.loc[:, ['Sex', 'Pclass']])
dummies_dataframe
```

```
[ ]:      Sex_female  Sex_male  Pclass_1  Pclass_2  Pclass_3
0          False      True      False      False      True
1           True      False      True      False      False
2           True      False      False      False      True
3           True      False      True      False      False
4          False      True      False      False      True
..          ...      ...      ...      ...      ...
886         False      True      False      True      False
887          True      False      True      False      False
888          True      False      False      False      True
889         False      True      True      False      False
890         False      True      False      False      True
```

[891 rows x 5 columns]

```
[ ]: df = pd.concat([df, dummies_dataframe], axis = 1)
df = df.drop(['Sex'], axis = 1)
df = df.loc[:, ['Pclass_1', 'Pclass_2', 'Pclass_3', 'Sex_female', 'Sex_male',
↪ 'Age', 'Survived']]
df
```

```
[ ]:      Pclass_1 Pclass_2 Pclass_3 Sex_female Sex_male Age Survived
0      False    False    True      False    True    22      0
1       True    False    False     True    False    38      1
2      False    False    True      True    False    26      1
3       True    False    False     True    False    35      1
4      False    False    True      False    True    35      0
..      ...      ...      ...      ...      ...      ...
886     False     True    False    False    True    27      0
887      True    False    False     True    False    19      1
888     False    False    True      True    False    15      0
889      True    False    False    False    True    26      1
890     False    False    True      False    True    32      0
```

[891 rows x 7 columns]

1.4 Clusteringmodel bouwen met 2 dimensies

```
[ ]: df_2d = df.loc[:, ['Age', 'Survived']]
df_2d
```

```
[ ]:      Age Survived
0      22      0
1      38      1
2      26      1
3      35      1
4      35      0
..      ...      ...
886     27      0
887     19      1
888     15      0
889     26      1
890     32      0
```

[891 rows x 2 columns]

```
[ ]: kmeans = KMeans(n_clusters = 3, random_state = 42)
kmeans.fit_predict(df_2d)
```

```
[ ]: array([0, 2, 2, 2, 2, 2, 1, 0, 2, 0, 0, 1, 0, 2, 0, 1, 0, 2, 2, 2, 2, 2,
0, 2, 0, 2, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
0, 2, 2, 2, 2, 0, 0, 0, 1, 2, 1, 2, 0, 2, 0, 0, 0, 2, 1, 0, 2, 2,
2, 0, 0, 2, 2, 0, 0, 2, 2, 2, 2, 2, 1, 2, 0, 2, 2, 2, 0, 2, 0, 2,
0, 2, 2, 0, 1, 2, 1, 2, 1, 0, 2, 2, 2, 2, 0, 2, 2, 2, 0, 2, 2, 2,
1, 0, 0, 0, 0, 0, 1, 2, 2, 0, 0, 1, 2, 2, 1, 0, 2, 2, 2, 1, 2, 0,
1, 2, 2, 0, 0, 2, 0, 2, 2, 0, 2, 0, 0, 0, 2, 0, 2, 2, 1, 0, 1, 2,
0, 1, 0, 2, 0, 0, 1, 2, 2, 0, 0, 0, 0, 1, 0, 2, 1, 0, 0, 0, 1, 0,
0, 1, 2, 2, 0, 0, 0, 0, 0, 0, 1, 2, 2, 2, 0, 0, 0, 1, 1, 0, 2,
```

```

0, 2, 2, 0, 2, 1, 0, 0, 2, 2, 0, 2, 2, 2, 0, 2, 2, 2, 2, 2, 2, 2,
0, 2, 1, 2, 2, 0, 0, 0, 0, 2, 2, 2, 1, 0, 2, 2, 1, 0, 0, 2, 2, 2,
2, 0, 2, 1, 2, 2, 2, 1, 2, 2, 1, 2, 2, 2, 2, 2, 2, 1, 2, 0, 1, 2,
2, 2, 0, 2, 1, 2, 2, 2, 2, 2, 2, 1, 1, 2, 0, 2, 1, 2, 0, 0, 2, 2,
2, 0, 2, 0, 2, 0, 2, 2, 2, 2, 2, 0, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0,
2, 2, 2, 0, 2, 2, 1, 2, 2, 1, 2, 2, 0, 2, 2, 0, 1, 2, 1, 2, 2, 0,
1, 1, 2, 0, 1, 1, 2, 2, 1, 1, 0, 2, 2, 2, 2, 2, 2, 1, 0, 2, 0, 1,
0, 2, 1, 2, 0, 2, 1, 1, 2, 2, 1, 2, 1, 2, 1, 1, 1, 2, 2, 0, 0, 0,
0, 1, 0, 2, 0, 0, 2, 0, 2, 2, 1, 0, 0, 2, 1, 0, 2, 0, 2, 0, 2, 0,
2, 1, 0, 2, 2, 2, 0, 2, 0, 2, 1, 0, 0, 1, 1, 1, 2, 1, 1, 1, 2, 0,
2, 0, 1, 0, 2, 2, 0, 1, 2, 0, 1, 2, 2, 1, 2, 0, 1, 0, 0, 2, 1, 2,
1, 0, 2, 2, 1, 0, 0, 2, 0, 1, 2, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 2,
1, 1, 1, 2, 1, 1, 1, 1, 2, 2, 2, 0, 0, 2, 2, 2, 0, 0, 0, 2, 1, 1,
2, 2, 2, 1, 2, 0, 2, 0, 1, 1, 0, 2, 1, 2, 2, 2, 0, 0, 2, 2, 0, 0,
2, 2, 2, 2, 2, 2, 2, 1, 2, 1, 2, 2, 2, 2, 2, 0, 2, 1, 2, 2, 1, 1,
2, 0, 0, 1, 0, 1, 2, 0, 1, 2, 1, 0, 2, 0, 0, 2, 1, 1, 0, 1, 2, 0,
0, 2, 1, 0, 0, 1, 1, 1, 2, 2, 1, 2, 2, 1, 1, 2, 0, 2, 1, 2, 1, 1,
2, 1, 0, 0, 2, 2, 1, 2, 2, 2, 1, 2, 1, 0, 1, 1, 0, 1, 2, 1, 1, 1,
2, 2, 1, 1, 1, 1, 2, 1, 1, 1, 2, 2, 2, 2, 0, 2, 2, 1, 1, 1, 2, 2,
2, 2, 0, 2, 2, 2, 0, 0, 0, 1, 1, 0, 2, 1, 1, 1, 2, 1, 0, 2, 2, 2,
2, 1, 0, 2, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 2, 0, 2, 0, 1,
1, 2, 1, 2, 0, 2, 2, 0, 1, 0, 2, 2, 1, 2, 0, 0, 2, 0, 1, 2, 2, 2,
0, 0, 1, 2, 0, 0, 0, 0, 2, 0, 2, 2, 1, 1, 1, 2, 1, 2, 0, 2, 0, 2,
2, 2, 1, 2, 0, 2, 2, 2, 1, 2, 1, 0, 2, 2, 2, 2, 0, 0, 2, 1, 2, 0,
2, 2, 2, 2, 2, 0, 2, 0, 0, 2, 1, 2, 1, 1, 1, 2, 0, 2, 2, 1, 0, 2,
0, 2, 0, 0, 2, 0, 1, 1, 2, 0, 2, 2, 1, 2, 0, 2, 0, 1, 1, 2, 1, 2,
2, 1, 1, 1, 1, 0, 1, 0, 1, 1, 0, 0, 2, 1, 2, 2, 0, 0, 0, 1, 1, 0,
1, 1, 2, 2, 1, 2, 2, 2, 2, 2, 0, 2, 2, 2, 2, 0, 2, 2, 2, 2, 2, 0,
2, 1, 0, 2, 1, 0, 1, 2, 2, 2, 0, 1, 1, 0, 1, 1, 0, 1, 0, 0, 0, 2,
0, 0, 2, 0, 0, 0, 2, 2, 0, 2, 0, 2, 2, 0, 0, 1, 0, 0, 1, 0, 1, 1,
2, 0, 2, 0, 1, 0, 2, 2, 2, 2, 0, 0, 2, 1, 2, 1, 2, 0, 0, 0, 0, 1,
2, 2, 0, 2, 2, 2, 2, 0, 0, 2, 2])

```

```

[ ]: kmeans_centra = pd.DataFrame(kmeans.cluster_centers_)
kmeans_centra

```

```

[ ]:
      0      1
0  15.992481  0.379699
1  54.156682  0.354839
2  31.632353  0.401961

```

```

[ ]: for i in range(len(kmeans_centra.columns)):
      kmeans_centra = kmeans_centra.rename(columns = {i : f'{df_2d.columns[i]}'})

kmeans_centra

```

```
[ ]:      Age  Survived
0  15.992481  0.379699
1  54.156682  0.354839
2  31.632353  0.401961
```

```
[ ]: for src_index, _ in df_2d.iterrows():
    euclidian_distances = dict()
    print(f"Afstand van bronindex {src_index} tot...")

    for centrumindex, _ in kmeans_centra.iterrows():
        print(f"\tCentrumindex {centrumindex}:")
        euclidian_sum = 0

        for column_name in kmeans_centra.columns:
            current_difference = df_2d.at[src_index, column_name] -
            ↪ kmeans_centra.at[centrumindex, column_name]
            print(f'\t\t{df_2d.at[src_index, column_name]} - {kmeans_centra.
            ↪ at[centrumindex, column_name]} = {current_difference}')
            euclidian_sum += current_difference ** 2

        print(f'\tTotale euclidische som: {euclidian_sum}')
        euclidian_distance = math.sqrt(euclidian_sum)
        print(f'\tEuclidische afstand: {euclidian_distance}')
        euclidian_distances[centrumindex] = euclidian_distance
        print('-----')

    print(euclidian_distances)
    centrum_number = min(euclidian_distances, key = euclidian_distances.get)
    print(centrum_number)
    df_2d.at[src_index, 'Centrum'] = centrum_number
    print("=====")

df_2d
```

Afstand van bronindex 0 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.234453615240994

Euclidische afstand: 6.0195060939616125

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1034.178109537259

Euclidische afstand: 32.15863973393867

Centrumindex 2:

```

22 - 31.63235294117647 = -9.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 1 tot...
Centrumindex 0:
38 - 15.992481203007529 = 22.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 484.71565662275947
Euclidische afstand: 22.016258915237152
-----
Centrumindex 1:
38 - 54.156682027649765 = -16.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 261.45460723311163
Euclidische afstand: 16.169558040747795
-----
Centrumindex 2:
38 - 31.63235294117647 = 6.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 40.90457996924259
Euclidische afstand: 6.395668844557432
-----
{0: 22.016258915237152, 1: 16.169558040747795, 2: 6.395668844557432}
2
=====
Afstand van bronindex 2 tot...
Centrumindex 0:
26 - 15.992481203007529 = 10.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 100.53520549494016
Euclidische afstand: 10.026724564629276
-----
Centrumindex 1:
26 - 54.156682027649765 = -28.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 793.2149758967059
Euclidische afstand: 28.164072430966122
-----
Centrumindex 2:
26 - 31.63235294117647 = -5.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 32.081050557477894
Euclidische afstand: 5.66401364382872

```

{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}
2
=====

Afstand van bronindex 3 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 361.6705438408046

Euclidische afstand: 19.017637704005317

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 367.3946993990102

Euclidische afstand: 19.16754286284526

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 11.69869761630142

Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2
=====

Afstand van bronindex 4 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 361.42994233704525

Euclidische afstand: 19.01131090527545

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 367.1043768183651

Euclidische afstand: 19.15996807978461

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 11.50261918492887

Euclidische afstand: 3.391551147326083

{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2
=====

Afstand van bronindex 5 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 6 tot...

Centrumindex 0:

$$54 - 15.992481203007529 = 38.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

$$54 - 54.156682027649765 = -0.15668202764976513$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

$$54 - 31.63235294117647 = 22.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 7 tot...

Centrumindex 0:

$$2 - 15.992481203007529 = -13.992481203007529$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422

Centrumindex 1:

2 - 54.156682027649765 = -52.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082

Centrumindex 2:

2 - 31.63235294117647 = -29.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339

{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0

=====

Afstand van bronindex 8 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2

=====

Afstand van bronindex 9 tot...

Centrumindex 0:

14 - 15.992481203007529 = -1.9924812030075287
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.354754367120849
Euclidische afstand: 2.0868048224788174

Centrumindex 1:

```

14 - 54.156682027649765 = -40.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1612.9753445603005
Euclidische afstand: 40.16186430633295
-----

Centrumindex 2:
14 - 31.63235294117647 = -17.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 311.2575211457132
Euclidische afstand: 17.64249191995601
-----

{0: 2.0868048224788174, 1: 40.16186430633295, 2: 17.64249191995601}
0
=====
Afstand van bronindex 10 tot...
Centrumindex 0:
4 - 15.992481203007529 = -11.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.20437842727142
Euclidische afstand: 12.008512748349457
-----

Centrumindex 1:
4 - 54.156682027649765 = -50.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2516.1089851132956
Euclidische afstand: 50.160831184434095
-----

Centrumindex 2:
4 - 31.63235294117647 = -27.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 763.9045799692426
Euclidische afstand: 27.63882378049476
-----

{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 11 tot...
Centrumindex 0:
58 - 15.992481203007529 = 42.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1765.0164085024585
Euclidische afstand: 42.012098358716365
-----

Centrumindex 1:
58 - 54.156682027649765 = 3.843317972350235
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 15.187326127121018
Euclidische afstand: 3.8970920090653514

```

```

-----
Centrumindex 2:
    58 - 31.63235294117647 = 26.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 695.6104623221838
Euclidische afstand: 26.374428189482778
-----
{0: 42.012098358716365, 1: 3.8970920090653514, 2: 26.374428189482778}
1
=====
Afstand van bronindex 12 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 13 tot...
Centrumindex 0:
    39 - 15.992481203007529 = 23.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835
-----
Centrumindex 1:
    39 - 54.156682027649765 = -15.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----
Centrumindex 2:
    39 - 31.63235294117647 = 7.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----
{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 14 tot...
Centrumindex 0:
    14 - 15.992481203007529 = -1.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.114152863361451
Euclidische afstand: 2.0283374628896076
-----
Centrumindex 1:
    14 - 54.156682027649765 = -40.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1612.6850219796552
Euclidische afstand: 40.15824973750294
-----
Centrumindex 2:
    14 - 31.63235294117647 = -17.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 311.06144271434067
Euclidische afstand: 17.636934050858745
-----
{0: 2.0283374628896076, 1: 40.15824973750294, 2: 17.636934050858745}
0
=====
Afstand van bronindex 15 tot...
Centrumindex 0:
    55 - 15.992481203007529 = 39.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1521.9712957205036
Euclidische afstand: 39.01245052185909
-----
Centrumindex 1:
    55 - 54.156682027649765 = 0.8433179723502349
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.1274182930196088
Euclidische afstand: 1.061799554068285
-----
Centrumindex 2:
    55 - 31.63235294117647 = 23.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 546.4045799692426
Euclidische afstand: 23.375298500109952
-----
{0: 39.01245052185909, 1: 1.061799554068285, 2: 23.375298500109952}

```

1

=====

Afstand van bronindex 16 tot...

Centrumindex 0:

$$2 - 15.992481203007529 = -13.992481203007529$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 195.93370173554214

Euclidische afstand: 13.997632004576422

Centrumindex 1:

$$2 - 54.156682027649765 = -52.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 2720.4453906432495

Euclidische afstand: 52.1578890547082

Centrumindex 2:

$$2 - 31.63235294117647 = -29.63235294117647$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 878.237913302576

Euclidische afstand: 29.63507910066339

{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}

0

=====

Afstand van bronindex 17 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 400.6855814347896

Euclidische afstand: 20.017132198064477

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

2

=====

Afstand van bronindex 18 tot...

Centrumindex 0:

```

        31 - 15.992481203007529 = 15.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----

Centrumindex 1:
        31 - 54.156682027649765 = -23.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----

Centrumindex 2:
        31 - 31.63235294117647 = -0.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 19 tot...
Centrumindex 0:
        36 - 15.992481203007529 = 20.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----

Centrumindex 1:
        36 - 54.156682027649765 = -18.156682027649765
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----

Centrumindex 2:
        36 - 31.63235294117647 = 4.367647058823529
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 20 tot...
Centrumindex 0:
        35 - 15.992481203007529 = 19.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 361.42994233704525
Euclidische afstand: 19.01131090527545

```

```

-----
Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 367.1043768183651
Euclidische afstand: 19.15996807978461
-----

Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 11.50261918492887
Euclidische afstand: 3.391551147326083
-----

{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2
=====
Afstand van bronindex 21 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 324.6555062468197
Euclidische afstand: 18.01819930644624
-----

Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 406.70806345430975
Euclidische afstand: 20.16700432524151
-----

Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 5.963403498654362
Euclidische afstand: 2.4420080873441763
-----

{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}
2
=====
Afstand van bronindex 22 tot...
Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3697919611057916
Euclidische afstand: 1.1703811178867298
-----

Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```


Totale euclidische som: 1533.6619805050009
Euclidische afstand: 39.16199663583307

Centrumindex 2:
15 - 31.63235294117647 = -16.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 276.9928152633603
Euclidische afstand: 16.643101131200286

{0: 1.1703811178867298, 1: 39.16199663583307, 2: 16.643101131200286}
0

Afstand van bronindex 23 tot...

Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163

Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915

Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2

Afstand van bronindex 24 tot...

Centrumindex 0:
8 - 15.992481203007529 = -7.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.0239272994518
Euclidische afstand: 8.001495316467528

Centrumindex 1:
8 - 54.156682027649765 = -46.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2130.5652063114526
Euclidische afstand: 46.15804595421531

Centrumindex 2:

```

      8 - 31.63235294117647 = -23.63235294117647
      0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 558.6496780084583
Euclidische afstand: 23.63577115324267
-----
{0: 8.001495316467528, 1: 46.15804595421531, 2: 23.63577115324267}
0
=====
Afstand van bronindex 25 tot...
  Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 484.71565662275947
Euclidische afstand: 22.016258915237152
-----
  Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 261.45460723311163
Euclidische afstand: 16.169558040747795
-----
  Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 40.90457996924259
Euclidische afstand: 6.395668844557432
-----
{0: 22.016258915237152, 1: 16.169558040747795, 2: 6.395668844557432}
2
=====
Afstand van bronindex 26 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506

```

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====

Afstand van bronindex 27 tot...

Centrumindex 0:

19 - 15.992481203007529 = 3.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 9.189340833286163

Euclidische afstand: 3.031392556777522

Centrumindex 1:

19 - 54.156682027649765 = -35.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1236.1182017031574

Euclidische afstand: 35.15847268729342

Centrumindex 2:

19 - 31.63235294117647 = -12.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 159.73791330257595

Euclidische afstand: 12.638746508359757

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====

Afstand van bronindex 28 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 400.6855814347896

Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====

Afstand van bronindex 29 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 30 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 31 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

2

=====

Afstand van bronindex 32 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 400.6855814347896

Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

2

=====

Afstand van bronindex 33 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

```

36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 34 tot...
Centrumindex 0:
36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 35 tot...
Centrumindex 0:
36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586

```

```

-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 36 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 37 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 38 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 400.4449799310302
  Euclidische afstand: 20.011121406133896
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 329.79101276306557
  Euclidische afstand: 18.160149029208586
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 19.23791330257593
  Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 39 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 400.6855814347896
  Euclidische afstand: 20.017132198064477
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 330.0813353437107
  Euclidische afstand: 18.168140668315807
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 19.433991733948478
  Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

```


2

=====

Afstand van bronindex 40 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 41 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

$$36 - 54.156682027649765 = -18.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

$$36 - 31.63235294117647 = 4.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 42 tot...

Centrumindex 0:

```

36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 43 tot...
Centrumindex 0:
36 - 15.992481203007529 = 20.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 44 tot...
Centrumindex 0:
19 - 15.992481203007529 = 3.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017

```

```

-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----

Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 45 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 46 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2

=====

Afstand van bronindex 47 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 400.6855814347896

Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2

=====

Afstand van bronindex 48 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

```

36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 49 tot...
Centrumindex 0:
18 - 15.992481203007529 = 2.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 50 tot...
Centrumindex 0:
7 - 15.992481203007529 = -8.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.00888970546684
Euclidische afstand: 9.00049385897612
-----
Centrumindex 1:
7 - 54.156682027649765 = -47.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2223.8785703667522
Euclidische afstand: 47.158017031749246
-----
Centrumindex 2:
7 - 31.63235294117647 = -24.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 606.9143838908112
Euclidische afstand: 24.635632402899894

```

{0: 9.00049385897612, 1: 47.158017031749246, 2: 24.635632402899894}
0

=====

Afstand van bronindex 51 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 113.20850153787006

Euclidische afstand: 10.639948380413792

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0

=====

Afstand van bronindex 52 tot...

Centrumindex 0:

49 - 15.992481203007529 = 33.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1089.881070156594

Euclidische afstand: 33.01334684876094

Centrumindex 1:

49 - 54.156682027649765 = -5.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 27.00760262481679

Euclidische afstand: 5.1968839341298345

Centrumindex 2:

49 - 31.63235294117647 = 17.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 301.9928152633602

Euclidische afstand: 17.37794047818556

{0: 33.01334684876094, 1: 5.1968839341298345, 2: 17.37794047818556}
1

=====

Afstand van bronindex 53 tot...

Centrumindex 0:

$$29 - 15.992481203007529 = 13.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 169.58031827689499

Euclidische afstand: 13.022300805805976

Centrumindex 1:

$$29 - 54.156682027649765 = -25.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 633.2748837308073

Euclidische afstand: 25.164953481594345

Centrumindex 2:

$$29 - 31.63235294117647 = -2.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 7.286932910419072

Euclidische afstand: 2.6994319606945223

{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}

2

=====

Afstand van bronindex 54 tot...

Centrumindex 0:

$$65 - 15.992481203007529 = 49.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 2401.8810701565935

Euclidische afstand: 49.00898968716447

Centrumindex 1:

$$65 - 54.156682027649765 = 10.843317972350235$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 117.70345515937915

Euclidische afstand: 10.849122322076525

Centrumindex 2:

$$65 - 31.63235294117647 = 33.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 1113.5614427143407

Euclidische afstand: 33.37006806577327

{0: 49.00898968716447, 1: 10.849122322076525, 2: 33.37006806577327}

1

=====

Afstand van bronindex 55 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2

=====

Afstand van bronindex 56 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 25.46001752501545
Euclidische afstand: 5.0457920612145175

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1099.7817961732037
Euclidische afstand: 33.162958193942885

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 113.4045799692426
Euclidische afstand: 10.649158650768737

{0: 5.0457920612145175, 1: 33.162958193942885, 2: 10.649158650768737}
0

=====

Afstand van bronindex 57 tot...

Centrumindex 0:

28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:


```

28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 58 tot...
Centrumindex 0:
5 - 15.992481203007529 = -10.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.21941602125636
Euclidische afstand: 11.009968938251205
-----

Centrumindex 1:
5 - 54.156682027649765 = -49.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2416.795621057996
Euclidische afstand: 49.16091558400836
-----

Centrumindex 2:
5 - 31.63235294117647 = -26.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 709.6398740868897
Euclidische afstand: 26.639066689486132
-----

{0: 11.009968938251205, 1: 49.16091558400836, 2: 26.639066689486132}
0
=====
Afstand van bronindex 59 tot...
Centrumindex 0:
11 - 15.992481203007529 = -4.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.069040081406623
Euclidische afstand: 5.00689924817812
-----

Centrumindex 1:
11 - 54.156682027649765 = -43.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1862.6251141455537
Euclidische afstand: 43.15814076330853

```

```

-----
Centrumindex 2:
    11 - 31.63235294117647 = -20.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 425.8555603613995
Euclidische afstand: 20.636268082223577
-----
{0: 5.00689924817812, 1: 43.15814076330853, 2: 20.636268082223577}
0
=====
Afstand van bronindex 60 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 61 tot...
Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 484.71565662275947
Euclidische afstand: 22.016258915237152
-----
Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 261.45460723311163
Euclidische afstand: 16.169558040747795
-----
Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 40.90457996924259
Euclidische afstand: 6.395668844557432
-----
{0: 22.016258915237152, 1: 16.169558040747795, 2: 6.395668844557432}
2
=====
Afstand van bronindex 62 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 63 tot...
Centrumindex 0:
    4 - 15.992481203007529 = -11.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 143.96377692351203
Euclidische afstand: 11.998490610218939
-----
Centrumindex 1:
    4 - 54.156682027649765 = -50.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2515.8186625326507
Euclidische afstand: 50.15793718378628
-----
Centrumindex 2:
    4 - 31.63235294117647 = -27.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 763.70850153787
Euclidische afstand: 27.63527639698706
-----
{0: 11.998490610218939, 1: 50.15793718378628, 2: 27.63527639698706}

```

0

=====

Afstand van bronindex 64 tot...

Centrumindex 0:

$$42 - 15.992481203007529 = 26.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 676.5352054949398

Euclidische afstand: 26.010290376982333

Centrumindex 1:

$$42 - 54.156682027649765 = -12.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 147.91082843126833

Euclidische afstand: 12.161859579491466

Centrumindex 2:

$$42 - 31.63235294117647 = 10.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 107.64967800845828

Euclidische afstand: 10.375436280391215

{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}

2

=====

Afstand van bronindex 65 tot...

Centrumindex 0:

$$42 - 15.992481203007529 = 26.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 676.7758069986992

Euclidische afstand: 26.01491508728597

Centrumindex 1:

$$42 - 54.156682027649765 = -12.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 148.2011510119135

Euclidische afstand: 12.173789509101654

Centrumindex 2:

$$42 - 31.63235294117647 = 10.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 107.84575643983082

Euclidische afstand: 10.38488114712108

{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}

2

=====

Afstand van bronindex 66 tot...

Centrumindex 0:

```

29 - 15.992481203007529 = 13.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976
-----

Centrumindex 1:
29 - 54.156682027649765 = -25.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345
-----

Centrumindex 2:
29 - 31.63235294117647 = -2.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223
-----

{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====
Afstand van bronindex 67 tot...
Centrumindex 0:
19 - 15.992481203007529 = 3.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----

Centrumindex 1:
19 - 54.156682027649765 = -35.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----

Centrumindex 2:
19 - 31.63235294117647 = -12.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 68 tot...
Centrumindex 0:
17 - 15.992481203007529 = 1.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3998671490756767
Euclidische afstand: 1.183159815526067

```

```

-----
Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1381.0352523944018
Euclidische afstand: 37.16228265855586
-----

Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 214.4634034986544
Euclidische afstand: 14.644569078626192
-----

{0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
0
=====
Afstand van bronindex 69 tot...
Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----

Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----

Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 70 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----

Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.2967368319876966

Euclidische afstand: 0.5447355615229252

{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2

=====

Afstand van bronindex 71 tot...

Centrumindex 0:

16 - 15.992481203007529 = 0.007518796992471266

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 0.14422805133133568

Euclidische afstand: 0.3797736843586397

Centrumindex 1:

16 - 54.156682027649765 = -38.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1456.0582938690561

Euclidische afstand: 38.15833190626991

Centrumindex 2:

16 - 31.63235294117647 = -15.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 244.53203094963476

Euclidische afstand: 15.637519974396028

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0

=====

Afstand van bronindex 72 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

```

                21 - 31.63235294117647 = -10.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 73 tot...
Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----
Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----
Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----
{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 74 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----
Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191

```

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}

2

=====

Afstand van bronindex 75 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 81.27956639719581

Euclidische afstand: 9.01551808811872

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 850.2380173713603

Euclidische afstand: 29.158841152750917

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 44.14967800845829

Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

=====

Afstand van bronindex 76 tot...

Centrumindex 0:

42 - 15.992481203007529 = 26.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 676.5352054949398

Euclidische afstand: 26.010290376982333

Centrumindex 1:

42 - 54.156682027649765 = -12.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 147.91082843126833

Euclidische afstand: 12.161859579491466

Centrumindex 2:

42 - 31.63235294117647 = 10.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 107.64967800845828

Euclidische afstand: 10.375436280391215

{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}

2

=====

Afstand van bronindex 77 tot...

Centrumindex 0:

$$42 - 15.992481203007529 = 26.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 676.5352054949398

Euclidische afstand: 26.010290376982333

Centrumindex 1:

$$42 - 54.156682027649765 = -12.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 147.91082843126833

Euclidische afstand: 12.161859579491466

Centrumindex 2:

$$42 - 31.63235294117647 = 10.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 107.64967800845828

Euclidische afstand: 10.375436280391215

{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}

2

Afstand van bronindex 78 tot...

Centrumindex 0:

$$83 - 15.992481203007529 = 67.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 4490.392348352082

Euclidische afstand: 67.01038985375389

Centrumindex 1:

$$83 - 54.156682027649765 = 28.843317972350235$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 832.3532247446327

Euclidische afstand: 28.8505324863274

Centrumindex 2:

$$83 - 31.63235294117647 = 51.36764705882353$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 2638.99281526336

Euclidische afstand: 51.37112822649859

{0: 67.01038985375389, 1: 28.8505324863274, 2: 51.37112822649859}

1

Afstand van bronindex 79 tot...

Centrumindex 0:

$$30 - 15.992481203007529 = 14.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2

=====

Afstand van bronindex 80 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0

=====

Afstand van bronindex 81 tot...

Centrumindex 0:

29 - 15.992481203007529 = 13.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976

Centrumindex 1:

```

                29 - 54.156682027649765 = -25.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345
-----

Centrumindex 2:
                29 - 31.63235294117647 = -2.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223
-----

{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====
Afstand van bronindex 82 tot...
Centrumindex 0:
                25 - 15.992481203007529 = 9.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 81.52016790095522
Euclidische afstand: 9.028851970264837
-----

Centrumindex 1:
                25 - 54.156682027649765 = -29.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 850.5283399520055
Euclidische afstand: 29.1638190220692
-----

Centrumindex 2:
                25 - 31.63235294117647 = -6.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 44.345756439830836
Euclidische afstand: 6.659260952976001
-----

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2
=====
Afstand van bronindex 83 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----

Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

```

```

-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 84 tot...
Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3998671490756767
Euclidische afstand: 1.183159815526067
-----
Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1381.0352523944018
Euclidische afstand: 37.16228265855586
-----
Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 214.4634034986544
Euclidische afstand: 14.644569078626192
-----
{0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
0
=====
Afstand van bronindex 85 tot...
Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 289.6404686528347
Euclidische afstand: 17.018826888268027
-----
Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 448.0214275096093
Euclidische afstand: 21.166516659800433
-----
Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 2.228109381007304
Euclidische afstand: 1.492685292018148
-----
{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}
2
=====
Afstand van bronindex 86 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----
{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 87 tot...
Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----
Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

```

2

=====

Afstand van bronindex 88 tot...

Centrumindex 0:

23 - 15.992481203007529 = 7.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 49.49009271298533

Euclidische afstand: 7.034919524272138

Centrumindex 1:

23 - 54.156682027649765 = -31.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 971.1550680626045

Euclidische afstand: 31.16336098790701

Centrumindex 2:

23 - 31.63235294117647 = -8.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 74.87516820453672

Euclidische afstand: 8.653043869329261

{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}

0

=====

Afstand van bronindex 89 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 64.26452880321087

Euclidische afstand: 8.016516001556466

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 58.41438389081123

Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}

2

=====

Afstand van bronindex 90 tot...

Centrumindex 0:

```

                29 - 15.992481203007529 = 13.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----

Centrumindex 1:
                29 - 54.156682027649765 = -25.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----

Centrumindex 2:
                29 - 31.63235294117647 = -2.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----

{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 91 tot...
Centrumindex 0:
                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----

Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----

Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 92 tot...
Centrumindex 0:
                46 - 15.992481203007529 = 30.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 900.5953558708795
Euclidische afstand: 30.009920957424722

```



```

-----
Centrumindex 1:
    46 - 54.156682027649765 = -8.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 66.65737221007022
Euclidische afstand: 8.16439662253557
-----

Centrumindex 2:
    46 - 31.63235294117647 = 14.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 206.5908544790465
Euclidische afstand: 14.373268747193398
-----

{0: 30.009920957424722, 1: 8.16439662253557, 2: 14.373268747193398}
1
=====
Afstand van bronindex 93 tot...
Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----

Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----

Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 94 tot...
Centrumindex 0:
    59 - 15.992481203007529 = 43.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1849.790844592684
Euclidische afstand: 43.00919488426497
-----

Centrumindex 1:
    59 - 54.156682027649765 = 4.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 23.583639491176328
Euclidische afstand: 4.856298949938763

Centrumindex 2:

59 - 31.63235294117647 = 27.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 749.1496780084582

Euclidische afstand: 27.370598787904846

{0: 43.00919488426497, 1: 4.856298949938763, 2: 27.370598787904846}

1

=====

Afstand van bronindex 95 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 81.27956639719581

Euclidische afstand: 9.01551808811872

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 850.2380173713603

Euclidische afstand: 29.158841152750917

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 44.14967800845829

Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

=====

Afstand van bronindex 96 tot...

Centrumindex 0:

71 - 15.992481203007529 = 55.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 3025.9712957205033

Euclidische afstand: 55.008829252407324

Centrumindex 1:

71 - 54.156682027649765 = 16.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 283.823270827582

Euclidische afstand: 16.84705525685667

Centrumindex 2:

```

71 - 31.63235294117647 = 39.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1549.973207420223
Euclidische afstand: 39.369699102485185
-----
{0: 55.008829252407324, 1: 16.84705525685667, 2: 39.369699102485185}
1
=====
Afstand van bronindex 97 tot...
Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.49009271298533
Euclidische afstand: 7.034919524272138
-----
Centrumindex 1:
23 - 54.156682027649765 = -31.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 971.1550680626045
Euclidische afstand: 31.16336098790701
-----
Centrumindex 2:
23 - 31.63235294117647 = -8.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 74.87516820453672
Euclidische afstand: 8.653043869329261
-----
{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}
0
=====
Afstand van bronindex 98 tot...
Centrumindex 0:
34 - 15.992481203007529 = 18.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 324.6555062468197
Euclidische afstand: 18.01819930644624
-----
Centrumindex 1:
34 - 54.156682027649765 = -20.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 406.70806345430975
Euclidische afstand: 20.16700432524151
-----
Centrumindex 2:
34 - 31.63235294117647 = 2.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 5.963403498654362
Euclidische afstand: 2.4420080873441763

```

{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}
2
=====

Afstand van bronindex 99 tot...

Centrumindex 0:

$$34 - 15.992481203007529 = 18.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 324.41490474306033

Euclidische afstand: 18.011521444427185

Centrumindex 1:

$$34 - 54.156682027649765 = -20.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 406.4177408736646

Euclidische afstand: 20.159805080249775

Centrumindex 2:

$$34 - 31.63235294117647 = 2.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 5.767325067281813

Euclidische afstand: 2.401525570815729

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====

Afstand van bronindex 100 tot...

Centrumindex 0:

$$28 - 15.992481203007529 = 12.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 144.32467917915065

Euclidische afstand: 12.013520682096097

Centrumindex 1:

$$28 - 54.156682027649765 = -26.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 684.2979252054618

Euclidische afstand: 26.1590887686376

Centrumindex 2:

$$28 - 31.63235294117647 = -3.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 13.355560361399464

Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====

```

Afstand van bronindex 101 tot...
  Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 81.27956639719581
  Euclidische afstand: 9.01551808811872
-----
  Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 850.2380173713603
  Euclidische afstand: 29.158841152750917
-----
  Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 44.14967800845829
  Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 102 tot...
  Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 25.21941602125605
  Euclidische afstand: 5.021893668852025
-----
  Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1099.4914735925583
  Euclidische afstand: 33.15858069327694
-----
  Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 113.20850153787006
  Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 103 tot...
  Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297

Centrumindex 1:
33 - 54.156682027649765 = -21.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755

Centrumindex 2:
33 - 31.63235294117647 = 1.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2

=====

Afstand van bronindex 104 tot...

Centrumindex 0:
37 - 15.992481203007529 = 21.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 441.46001752501513
Euclidische afstand: 21.01094994342272

Centrumindex 1:
37 - 54.156682027649765 = -17.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 294.47764870776604
Euclidische afstand: 17.16035106598248

Centrumindex 2:
37 - 31.63235294117647 = 5.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 28.973207420222987
Euclidische afstand: 5.382676603718915

{0: 21.01094994342272, 1: 17.16035106598248, 2: 5.382676603718915}
2

=====

Afstand van bronindex 105 tot...

Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:

```

                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 106 tot...
Centrumindex 0:
                21 - 15.992481203007529 = 5.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 25.46001752501545
Euclidische afstand: 5.0457920612145175
-----

Centrumindex 1:
                21 - 54.156682027649765 = -33.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1099.7817961732037
Euclidische afstand: 33.162958193942885
-----

Centrumindex 2:
                21 - 31.63235294117647 = -10.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 113.4045799692426
Euclidische afstand: 10.649158650768737
-----

{0: 5.0457920612145175, 1: 33.162958193942885, 2: 10.649158650768737}
0
=====
Afstand van bronindex 107 tot...
Centrumindex 0:
                25 - 15.992481203007529 = 9.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 81.52016790095522
Euclidische afstand: 9.028851970264837
-----

Centrumindex 1:
                25 - 54.156682027649765 = -29.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 850.5283399520055
Euclidische afstand: 29.1638190220692

```

```

-----
Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 44.345756439830836
Euclidische afstand: 6.659260952976001
-----
{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2
=====
Afstand van bronindex 108 tot...
Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 484.4750551190001
Euclidische afstand: 22.010794059256476
-----
Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 261.1642846524665
Euclidische afstand: 16.160578103906634
-----
Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 40.70850153787004
Euclidische afstand: 6.380321429040237
-----
{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}
2
=====
Afstand van bronindex 109 tot...
Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 81.52016790095522
Euclidische afstand: 9.028851970264837
-----
Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 850.5283399520055
Euclidische afstand: 29.1638190220692
-----
Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746

```



```

Totale euclidische som: 44.345756439830836
Euclidische afstand: 6.659260952976001
-----
{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2
=====
Afstand van bronindex 110 tot...
  Centrumindex 0:
    47 - 15.992481203007529 = 31.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 961.6103934648645
  Euclidische afstand: 31.00984349307272
-----
  Centrumindex 1:
    47 - 54.156682027649765 = -7.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 51.34400815477069
  Euclidische afstand: 7.165473337803351
-----
  Centrumindex 2:
    47 - 31.63235294117647 = 15.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 236.32614859669357
  Euclidische afstand: 15.372903063400015
-----
{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 111 tot...
  Centrumindex 0:
    14 - 15.992481203007529 = -1.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 4.114152863361451
  Euclidische afstand: 2.0283374628896076
-----
  Centrumindex 1:
    14 - 54.156682027649765 = -40.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1612.6850219796552
  Euclidische afstand: 40.15824973750294
-----
  Centrumindex 2:
    14 - 31.63235294117647 = -17.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 311.06144271434067
  Euclidische afstand: 17.636934050858745
-----
{0: 2.0283374628896076, 1: 40.15824973750294, 2: 17.636934050858745}

```

0

=====

Afstand van bronindex 112 tot...

Centrumindex 0:

$$22 - 15.992481203007529 = 6.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 36.234453615240994

Euclidische afstand: 6.0195060939616125

Centrumindex 1:

$$22 - 54.156682027649765 = -32.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1034.178109537259

Euclidische afstand: 32.15863973393867

Centrumindex 2:

$$22 - 31.63235294117647 = -9.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 92.94379565551712

Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}

0

=====

Afstand van bronindex 113 tot...

Centrumindex 0:

$$20 - 15.992481203007529 = 4.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

$$20 - 54.156682027649765 = -34.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

$$20 - 31.63235294117647 = -11.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 135.473207420223

Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}

0

=====

Afstand van bronindex 114 tot...

Centrumindex 0:

```

17 - 15.992481203007529 = 1.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1592656453162782
Euclidische afstand: 1.0766919918510949
-----

Centrumindex 1:
17 - 54.156682027649765 = -37.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1380.7449298137565
Euclidische afstand: 37.158376307553546
-----

Centrumindex 2:
17 - 31.63235294117647 = -14.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 214.26732506728183
Euclidische afstand: 14.637872969365523
-----

{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====
Afstand van bronindex 115 tot...
Centrumindex 0:
21 - 15.992481203007529 = 5.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----

Centrumindex 1:
21 - 54.156682027649765 = -33.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----

Centrumindex 2:
21 - 31.63235294117647 = -10.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 116 tot...
Centrumindex 0:
70 - 15.992481203007529 = 54.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2916.956258126518
Euclidische afstand: 54.0088535161275

```

```

-----
Centrumindex 1:
    70 - 54.156682027649765 = 15.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 251.13663488288148
Euclidische afstand: 15.84729108973775
-----

Centrumindex 2:
    70 - 31.63235294117647 = 38.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1472.2379133025759
Euclidische afstand: 38.36975258328591
-----

{0: 54.0088535161275, 1: 15.84729108973775, 2: 38.36975258328591}
1
=====
Afstand van bronindex 117 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----

Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----

Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----

{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 118 tot...
Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----

Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 119 tot...
Centrumindex 0:
    2 - 15.992481203007529 = -13.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422
-----
Centrumindex 1:
    2 - 54.156682027649765 = -52.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082
-----
Centrumindex 2:
    2 - 31.63235294117647 = -29.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339
-----
{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0
=====
Afstand van bronindex 120 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----
Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----
Centrumindex 2:

```

```

                21 - 31.63235294117647 = -10.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 121 tot...
Centrumindex 0:
    70 - 15.992481203007529 = 54.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2916.956258126518
Euclidische afstand: 54.0088535161275
-----
Centrumindex 1:
    70 - 54.156682027649765 = 15.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 251.13663488288148
Euclidische afstand: 15.84729108973775
-----
Centrumindex 2:
    70 - 31.63235294117647 = 38.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1472.2379133025759
Euclidische afstand: 38.36975258328591
-----
{0: 54.0088535161275, 1: 15.84729108973775, 2: 38.36975258328591}
1
=====
Afstand van bronindex 122 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----
Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252

```

{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====

Afstand van bronindex 123 tot...

Centrumindex 0:

32 - 15.992481203007529 = 16.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 256.6254310588498

Euclidische afstand: 16.01953279777066

Centrumindex 1:

32 - 54.156682027649765 = -22.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 491.3347915649088

Euclidische afstand: 22.166072984741994

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 0.49281526336024584

Euclidische afstand: 0.7020080222905191

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2
=====

Afstand van bronindex 124 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====

```

Afstand van bronindex 125 tot...
  Centrumindex 0:
    12 - 15.992481203007529 = -3.9924812030075287
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 16.324679179150966
  Euclidische afstand: 4.040381068556648
-----
  Centrumindex 1:
    12 - 54.156682027649765 = -42.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1777.6020726708996
  Euclidische afstand: 42.16161847783953
-----
  Centrumindex 2:
    12 - 31.63235294117647 = -19.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 385.7869329104191
  Euclidische afstand: 19.641459541246398
-----
{0: 4.040381068556648, 1: 42.16161847783953, 2: 19.641459541246398}
0
=====
Afstand van bronindex 126 tot...
  Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 289.39986714907536
  Euclidische afstand: 17.011756733185297
-----
  Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 447.73110492896416
  Euclidische afstand: 21.15965748609755
-----
  Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 2.0320309496347546
  Euclidische afstand: 1.4254932303012717
-----
{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 127 tot...
  Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992

```


Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2

=====

Afstand van bronindex 128 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 289.6404686528347
Euclidische afstand: 17.018826888268027

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 448.0214275096093
Euclidische afstand: 21.166516659800433

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 2.228109381007304
Euclidische afstand: 1.492685292018148

{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}
2

=====

Afstand van bronindex 129 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217

Centrumindex 1:

```

                45 - 54.156682027649765 = -9.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
                45 - 31.63235294117647 = 13.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 130 tot...
Centrumindex 0:
                33 - 15.992481203007529 = 17.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297
-----
Centrumindex 1:
                33 - 54.156682027649765 = -21.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755
-----
Centrumindex 2:
                33 - 31.63235294117647 = 1.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717
-----
{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 131 tot...
Centrumindex 0:
                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816

```

```

-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 132 tot...
Centrumindex 0:
    47 - 15.992481203007529 = 31.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 961.6103934648645
Euclidische afstand: 31.00984349307272
-----
Centrumindex 1:
    47 - 54.156682027649765 = -7.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 51.34400815477069
Euclidische afstand: 7.165473337803351
-----
Centrumindex 2:
    47 - 31.63235294117647 = 15.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 236.32614859669357
Euclidische afstand: 15.372903063400015
-----
{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 133 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345
-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223
-----
{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====
Afstand van bronindex 134 tot...
Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----
Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 135 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}

```

0

=====

Afstand van bronindex 136 tot...

Centrumindex 0:

19 - 15.992481203007529 = 3.0075187969924713

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 9.429942337045562

Euclidische afstand: 3.0708211177217017

Centrumindex 1:

19 - 54.156682027649765 = -35.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1236.4085242838028

Euclidische afstand: 35.16260121611885

Centrumindex 2:

19 - 31.63235294117647 = -12.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 159.93399173394852

Euclidische afstand: 12.64650116569593

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}

0

=====

Afstand van bronindex 137 tot...

Centrumindex 0:

37 - 15.992481203007529 = 21.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 441.46001752501513

Euclidische afstand: 21.01094994342272

Centrumindex 1:

37 - 54.156682027649765 = -17.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 294.47764870776604

Euclidische afstand: 17.16035106598248

Centrumindex 2:

37 - 31.63235294117647 = 5.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 28.973207420222987

Euclidische afstand: 5.382676603718915

{0: 21.01094994342272, 1: 17.16035106598248, 2: 5.382676603718915}

2

=====

Afstand van bronindex 138 tot...

Centrumindex 0:

```

        16 - 15.992481203007529 = 0.007518796992471266
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----

Centrumindex 1:
        16 - 54.156682027649765 = -38.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----

Centrumindex 2:
        16 - 31.63235294117647 = -15.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 139 tot...
Centrumindex 0:
        24 - 15.992481203007529 = 8.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----

Centrumindex 1:
        24 - 54.156682027649765 = -30.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----

Centrumindex 2:
        24 - 31.63235294117647 = -7.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 140 tot...
Centrumindex 0:
        33 - 15.992481203007529 = 17.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297

```

```

-----
Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755
-----

Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717
-----

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 141 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----

Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----

Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 142 tot...
Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337
-----

Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====

Afstand van bronindex 143 tot...

Centrumindex 0:

19 - 15.992481203007529 = 3.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522

Centrumindex 1:

19 - 54.156682027649765 = -35.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342

Centrumindex 2:

19 - 31.63235294117647 = -12.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====

Afstand van bronindex 144 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305

Centrumindex 2:


```

18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 145 tot...
Centrumindex 0:
19 - 15.992481203007529 = 3.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
19 - 54.156682027649765 = -35.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
19 - 31.63235294117647 = -12.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 146 tot...
Centrumindex 0:
27 - 15.992481203007529 = 11.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
27 - 54.156682027649765 = -27.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:
27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389

```

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====

Afstand van bronindex 147 tot...

Centrumindex 0:

9 - 15.992481203007529 = -6.992481203007529

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 49.03896489343674

Euclidische afstand: 7.002782653591124

Centrumindex 1:

9 - 54.156682027649765 = -45.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 2039.2518422561527

Euclidische afstand: 45.158076157606104

Centrumindex 2:

9 - 31.63235294117647 = -22.63235294117647

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 512.3849721261054

Euclidische afstand: 22.635922162043794

{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====

Afstand van bronindex 148 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 400.4449799310302

Euclidische afstand: 20.011121406133896

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 329.79101276306557

Euclidische afstand: 18.160149029208586

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 19.23791330257593

Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====

Afstand van bronindex 149 tot...

Centrumindex 0:

$$42 - 15.992481203007529 = 26.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 676.5352054949398

Euclidische afstand: 26.010290376982333

Centrumindex 1:

$$42 - 54.156682027649765 = -12.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 147.91082843126833

Euclidische afstand: 12.161859579491466

Centrumindex 2:

$$42 - 31.63235294117647 = 10.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 107.64967800845828

Euclidische afstand: 10.375436280391215

{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}

2

Afstand van bronindex 150 tot...

Centrumindex 0:

$$51 - 15.992481203007529 = 35.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1225.6705438408044

Euclidische afstand: 35.009577887212586

Centrumindex 1:

$$51 - 54.156682027649765 = -3.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 10.090551933572568

Euclidische afstand: 3.1765629119494183

Centrumindex 2:

$$51 - 31.63235294117647 = 19.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 375.26732506728183

Euclidische afstand: 19.371817804926874

{0: 35.009577887212586, 1: 3.1765629119494183, 2: 19.371817804926874}

1

Afstand van bronindex 151 tot...

Centrumindex 0:

$$22 - 15.992481203007529 = 6.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1034.4684321179043

Euclidische afstand: 32.16315332982611

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 93.13987408688966

Euclidische afstand: 9.650900169771194

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}

0

=====

Afstand van bronindex 152 tot...

Centrumindex 0:

55 - 15.992481203007529 = 39.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1521.730694216744

Euclidische afstand: 39.00936674975312

Centrumindex 1:

55 - 54.156682027649765 = 0.8433179723502349

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.8370957123744474

Euclidische afstand: 0.9149293482966033

Centrumindex 2:

55 - 31.63235294117647 = 23.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 546.20850153787

Euclidische afstand: 23.37110398628764

{0: 39.00936674975312, 1: 0.9149293482966033, 2: 23.37110398628764}

1

=====

Afstand van bronindex 153 tot...

Centrumindex 0:

40 - 15.992481203007529 = 24.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 576.5051303069699

Euclidische afstand: 24.01052124188415

Centrumindex 1:

```

        40 - 54.156682027649765 = -14.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----
Centrumindex 2:
        40 - 31.63235294117647 = 8.367647058823529
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----
{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 154 tot...
Centrumindex 0:
        20 - 15.992481203007529 = 4.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
        20 - 54.156682027649765 = -34.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
        20 - 31.63235294117647 = -11.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 155 tot...
Centrumindex 0:
        51 - 15.992481203007529 = 35.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1225.6705438408044
Euclidische afstand: 35.009577887212586
-----
Centrumindex 1:
        51 - 54.156682027649765 = -3.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 10.090551933572568
Euclidische afstand: 3.1765629119494183

```

```

-----
Centrumindex 2:
    51 - 31.63235294117647 = 19.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 375.26732506728183
Euclidische afstand: 19.371817804926874
-----
{0: 35.009577887212586, 1: 3.1765629119494183, 2: 19.371817804926874}
1
=====
Afstand van bronindex 156 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 0.3848295550907342
Euclidische afstand: 0.6203463186726703
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1456.3486164497015
Euclidische afstand: 38.162135899995185
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 244.72810938100733
Euclidische afstand: 15.643788204300368
-----
{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}
0
=====
Afstand van bronindex 157 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----
Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----
Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 158 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 159 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}

```

0

=====

Afstand van bronindex 160 tot...

Centrumindex 0:

$$44 - 15.992481203007529 = 28.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 784.5652806829097

Euclidische afstand: 28.010092479013878

Centrumindex 1:

$$44 - 54.156682027649765 = -10.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 103.28410032066928

Euclidische afstand: 10.1628785450122

Centrumindex 2:

$$44 - 31.63235294117647 = 12.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 153.12026624375238

Euclidische afstand: 12.37417739664954

{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}

1

=====

Afstand van bronindex 161 tot...

Centrumindex 0:

$$40 - 15.992481203007529 = 24.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 576.7457318107294

Euclidische afstand: 24.015531054105995

Centrumindex 1:

$$40 - 54.156682027649765 = -14.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 200.82787912251257

Euclidische afstand: 14.171375343364263

Centrumindex 2:

$$40 - 31.63235294117647 = 8.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 70.3751682045367

Euclidische afstand: 8.38899089310131

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}

2

=====

Afstand van bronindex 162 tot...

Centrumindex 0:


```

                26 - 15.992481203007529 = 10.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----

Centrumindex 1:
                26 - 54.156682027649765 = -28.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----

Centrumindex 2:
                26 - 31.63235294117647 = -5.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 163 tot...
Centrumindex 0:
                17 - 15.992481203007529 = 1.0075187969924713
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1592656453162782
Euclidische afstand: 1.0766919918510949
-----

Centrumindex 1:
                17 - 54.156682027649765 = -37.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1380.7449298137565
Euclidische afstand: 37.158376307553546
-----

Centrumindex 2:
                17 - 31.63235294117647 = -14.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 214.26732506728183
Euclidische afstand: 14.637872969365523
-----

{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====
Afstand van bronindex 164 tot...
Centrumindex 0:
                1 - 15.992481203007529 = -14.992481203007529
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 224.9186641415572
Euclidische afstand: 14.99728855965495

```

```

-----
Centrumindex 1:
    1 - 54.156682027649765 = -53.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2825.758754698549
Euclidische afstand: 53.15786634825131
-----

Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 938.5026191849289
Euclidische afstand: 30.634990112368715
-----

{0: 14.99728855965495, 1: 53.15786634825131, 2: 30.634990112368715}
0
=====
Afstand van bronindex 165 tot...
Centrumindex 0:
    9 - 15.992481203007529 = -6.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.279566397196135
Euclidische afstand: 7.019940626329836
-----

Centrumindex 1:
    9 - 54.156682027649765 = -45.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2039.542164836798
Euclidische afstand: 45.16129055769773
-----

Centrumindex 2:
    9 - 31.63235294117647 = -22.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 512.581050557478
Euclidische afstand: 22.64025288192422
-----

{0: 7.019940626329836, 1: 45.16129055769773, 2: 22.64025288192422}
0
=====
Afstand van bronindex 166 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 16.444979931030506
Euclidische afstand: 4.05524104475067
-----

Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 1167.0951602285033
Euclidische afstand: 34.162774480836646
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 135.66928585159556
Euclidische afstand: 11.64771590706073
-----
{0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}
0
=====
Afstand van bronindex 167 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 168 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:

```

```

                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 169 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 170 tot...
Centrumindex 0:
    61 - 15.992481203007529 = 45.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736
-----
Centrumindex 1:
    61 - 54.156682027649765 = 6.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332
-----
Centrumindex 2:
    61 - 31.63235294117647 = 29.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319

```

{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1
=====

Afstand van bronindex 171 tot...

Centrumindex 0:

4 - 15.992481203007529 = -11.992481203007529

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 143.96377692351203

Euclidische afstand: 11.998490610218939

Centrumindex 1:

4 - 54.156682027649765 = -50.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 2515.8186625326507

Euclidische afstand: 50.15793718378628

Centrumindex 2:

4 - 31.63235294117647 = -27.63235294117647

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 763.70850153787

Euclidische afstand: 27.63527639698706

{0: 11.998490610218939, 1: 50.15793718378628, 2: 27.63527639698706}
0
=====

Afstand van bronindex 172 tot...

Centrumindex 0:

1 - 15.992481203007529 = -14.992481203007529

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 225.1592656453166

Euclidische afstand: 15.00530791571158

Centrumindex 1:

1 - 54.156682027649765 = -53.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 2826.049077279194

Euclidische afstand: 53.16059703651939

Centrumindex 2:

1 - 31.63235294117647 = -30.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 938.6986976163015

Euclidische afstand: 30.63819018180254

{0: 15.00530791571158, 1: 53.16059703651939, 2: 30.63819018180254}
0
=====

Afstand van bronindex 173 tot...

Centrumindex 0:

$$21 - 15.992481203007529 = 5.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

$$21 - 54.156682027649765 = -33.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

$$21 - 31.63235294117647 = -10.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 113.20850153787006

Euclidische afstand: 10.639948380413792

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}

0

=====

Afstand van bronindex 174 tot...

Centrumindex 0:

$$56 - 15.992481203007529 = 40.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1600.745731810729

Euclidische afstand: 40.00932056172323

Centrumindex 1:

$$56 - 54.156682027649765 = 1.8433179723502349$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 3.523731657074917

Euclidische afstand: 1.8771605304488257

Centrumindex 2:

$$56 - 31.63235294117647 = 24.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 593.9437956555171

Euclidische afstand: 24.3709621405376

{0: 40.00932056172323, 1: 1.8771605304488257, 2: 24.3709621405376}

1

=====

Afstand van bronindex 175 tot...

Centrumindex 0:

$$18 - 15.992481203007529 = 2.0075187969924713$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646

Centrumindex 1:
18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305

Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0

=====

Afstand van bronindex 176 tot...

Centrumindex 0:
20 - 15.992481203007529 = 4.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904

Centrumindex 1:
20 - 54.156682027649765 = -34.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816

Centrumindex 2:
20 - 31.63235294117647 = -11.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0

=====

Afstand van bronindex 177 tot...

Centrumindex 0:
50 - 15.992481203007529 = 34.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1156.6555062468194
Euclidische afstand: 34.009638431580235

Centrumindex 1:

```

50 - 54.156682027649765 = -4.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 17.4039159888721
Euclidische afstand: 4.171800089754074
-----

Centrumindex 2:
50 - 31.63235294117647 = 18.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 337.53203094963476
Euclidische afstand: 18.372044822219294
-----

{0: 34.009638431580235, 1: 4.171800089754074, 2: 18.372044822219294}
1
=====
Afstand van bronindex 178 tot...
Centrumindex 0:
30 - 15.992481203007529 = 14.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----

Centrumindex 1:
30 - 54.156682027649765 = -24.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 179 tot...
Centrumindex 0:
36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586

```



```

-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 180 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 181 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 182 tot...
Centrumindex 0:
    9 - 15.992481203007529 = -6.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.03896489343674
Euclidische afstand: 7.002782653591124
-----
Centrumindex 1:
    9 - 54.156682027649765 = -45.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2039.2518422561527
Euclidische afstand: 45.158076157606104
-----
Centrumindex 2:
    9 - 31.63235294117647 = -22.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 512.3849721261054
Euclidische afstand: 22.635922162043794
-----
{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====
Afstand van bronindex 183 tot...
Centrumindex 0:
    1 - 15.992481203007529 = -14.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.1592656453166
Euclidische afstand: 15.00530791571158
-----
Centrumindex 1:
    1 - 54.156682027649765 = -53.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2826.049077279194
Euclidische afstand: 53.16059703651939
-----
Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 938.6986976163015
Euclidische afstand: 30.63819018180254
-----
{0: 15.00530791571158, 1: 53.16059703651939, 2: 30.63819018180254}

```

0

=====

Afstand van bronindex 184 tot...

Centrumindex 0:

$$4 - 15.992481203007529 = -11.992481203007529$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 144.20437842727142

Euclidische afstand: 12.008512748349457

Centrumindex 1:

$$4 - 54.156682027649765 = -50.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 2516.1089851132956

Euclidische afstand: 50.160831184434095

Centrumindex 2:

$$4 - 31.63235294117647 = -27.63235294117647$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 763.9045799692426

Euclidische afstand: 27.63882378049476

{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}

0

=====

Afstand van bronindex 185 tot...

Centrumindex 0:

$$20 - 15.992481203007529 = 4.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

$$20 - 54.156682027649765 = -34.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

$$20 - 31.63235294117647 = -11.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 135.473207420223

Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}

0

=====

Afstand van bronindex 186 tot...

Centrumindex 0:

$20 - 15.992481203007529 = 4.007518796992471$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 16.444979931030506
 Euclidische afstand: 4.05524104475067

 Centrumindex 1:
 $20 - 54.156682027649765 = -34.156682027649765$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 1167.0951602285033
 Euclidische afstand: 34.162774480836646

 Centrumindex 2:
 $20 - 31.63235294117647 = -11.632352941176471$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 135.66928585159556
 Euclidische afstand: 11.64771590706073

 {0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}
 0

=====
 Afstand van bronindex 187 tot...

Centrumindex 0:
 $45 - 15.992481203007529 = 29.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 841.8209197806541
 Euclidische afstand: 29.0141503370451

 Centrumindex 1:
 $45 - 54.156682027649765 = -9.156682027649765$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 84.2610588460149
 Euclidische afstand: 9.179382269304122

 Centrumindex 2:
 $45 - 31.63235294117647 = 13.367647058823529$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 179.05163879277202
 Euclidische afstand: 13.381017853391125

 {0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
 1

=====
 Afstand van bronindex 188 tot...

Centrumindex 0:
 $40 - 15.992481203007529 = 24.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 576.5051303069699
 Euclidische afstand: 24.01052124188415

```

-----
Centrumindex 1:
    40 - 54.156682027649765 = -14.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----

Centrumindex 2:
    40 - 31.63235294117647 = 8.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----

{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 189 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 190 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----

Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191
-----
{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2
=====
Afstand van bronindex 191 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 192 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----
Centrumindex 2:

```

```

19 - 31.63235294117647 = -12.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----
{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 193 tot...
Centrumindex 0:
3 - 15.992481203007529 = -12.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.18934083328648
Euclidische afstand: 13.007280301173127
-----
Centrumindex 1:
3 - 54.156682027649765 = -51.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2617.4223491685952
Euclidische afstand: 51.16075008410838
-----
Centrumindex 2:
3 - 31.63235294117647 = -28.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 820.1692858515955
Euclidische afstand: 28.638597833196993
-----
{0: 13.007280301173127, 1: 51.16075008410838, 2: 28.638597833196993}
0
=====
Afstand van bronindex 194 tot...
Centrumindex 0:
44 - 15.992481203007529 = 28.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 784.8058821866691
Euclidische afstand: 28.014387057129575
-----
Centrumindex 1:
44 - 54.156682027649765 = -10.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 103.57442290131443
Euclidische afstand: 10.177152003449415
-----
Centrumindex 2:
44 - 31.63235294117647 = 12.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 153.31634467512495
Euclidische afstand: 12.382097749376918

```

{0: 28.014387057129575, 1: 10.177152003449415, 2: 12.382097749376918}
1
=====

Afstand van bronindex 195 tot...

Centrumindex 0:

58 - 15.992481203007529 = 42.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1765.0164085024585

Euclidische afstand: 42.012098358716365

Centrumindex 1:

58 - 54.156682027649765 = 3.843317972350235

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 15.187326127121018

Euclidische afstand: 3.8970920090653514

Centrumindex 2:

58 - 31.63235294117647 = 26.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 695.6104623221838

Euclidische afstand: 26.374428189482778

{0: 42.012098358716365, 1: 3.8970920090653514, 2: 26.374428189482778}
1
=====

Afstand van bronindex 196 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

20 - 54.156682027649765 = -34.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

20 - 31.63235294117647 = -11.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 135.473207420223

Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====


```

Afstand van bronindex 197 tot...
  Centrumindex 0:
    42 - 15.992481203007529 = 26.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 676.5352054949398
  Euclidische afstand: 26.010290376982333
-----
  Centrumindex 1:
    42 - 54.156682027649765 = -12.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 147.91082843126833
  Euclidische afstand: 12.161859579491466
-----
  Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 107.64967800845828
  Euclidische afstand: 10.375436280391215
-----
{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}
2
=====
Afstand van bronindex 198 tot...
  Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 16.444979931030506
  Euclidische afstand: 4.05524104475067
-----
  Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1167.0951602285033
  Euclidische afstand: 34.162774480836646
-----
  Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 135.66928585159556
  Euclidische afstand: 11.64771590706073
-----
{0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}
0
=====
Afstand van bronindex 199 tot...
  Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2

=====

Afstand van bronindex 200 tot...

Centrumindex 0:

28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:

28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

Centrumindex 2:

28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2

=====

Afstand van bronindex 201 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904

Centrumindex 1:

```

                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 202 tot...
Centrumindex 0:
                34 - 15.992481203007529 = 18.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185
-----
Centrumindex 1:
                34 - 54.156682027649765 = -20.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775
-----
Centrumindex 2:
                34 - 31.63235294117647 = 2.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729
-----
{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====
Afstand van bronindex 203 tot...
Centrumindex 0:
                45 - 15.992481203007529 = 29.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
                45 - 54.156682027649765 = -9.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

```

```

-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 204 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 4.414904743060619
Euclidische afstand: 2.1011674714454864
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----
{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 205 tot...
Centrumindex 0:
    2 - 15.992481203007529 = -13.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422
-----
Centrumindex 1:
    2 - 54.156682027649765 = -52.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082
-----
Centrumindex 2:
    2 - 31.63235294117647 = -29.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339
-----
{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0
=====
Afstand van bronindex 206 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----
Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252
-----
{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====
Afstand van bronindex 207 tot...
Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 100.53520549494016
Euclidische afstand: 10.026724564629276
-----
Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 793.2149758967059
Euclidische afstand: 28.164072430966122
-----
Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 32.081050557477894
Euclidische afstand: 5.66401364382872
-----
{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}

```

2

=====

Afstand van bronindex 208 tot...

Centrumindex 0:

16 - 15.992481203007529 = 0.007518796992471266

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 0.3848295550907342

Euclidische afstand: 0.6203463186726703

Centrumindex 1:

16 - 54.156682027649765 = -38.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1456.3486164497015

Euclidische afstand: 38.162135899995185

Centrumindex 2:

16 - 31.63235294117647 = -15.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 244.72810938100733

Euclidische afstand: 15.643788204300368

{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}

0

=====

Afstand van bronindex 209 tot...

Centrumindex 0:

40 - 15.992481203007529 = 24.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 576.7457318107294

Euclidische afstand: 24.015531054105995

Centrumindex 1:

40 - 54.156682027649765 = -14.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 200.82787912251257

Euclidische afstand: 14.171375343364263

Centrumindex 2:

40 - 31.63235294117647 = 8.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 70.3751682045367

Euclidische afstand: 8.38899089310131

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}

2

=====

Afstand van bronindex 210 tot...

Centrumindex 0:

```

24 - 15.992481203007529 = 8.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----
Centrumindex 1:
24 - 54.156682027649765 = -30.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
24 - 31.63235294117647 = -7.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 211 tot...
Centrumindex 0:
35 - 15.992481203007529 = 19.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 361.6705438408046
Euclidische afstand: 19.017637704005317
-----
Centrumindex 1:
35 - 54.156682027649765 = -19.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 367.3946993990102
Euclidische afstand: 19.16754286284526
-----
Centrumindex 2:
35 - 31.63235294117647 = 3.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 11.69869761630142
Euclidische afstand: 3.420335892321311
-----
{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2
=====
Afstand van bronindex 212 tot...
Centrumindex 0:
22 - 15.992481203007529 = 6.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125

```

```

-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----

Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 213 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----

Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----

Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 214 tot...
Centrumindex 0:
    40 - 15.992481203007529 = 24.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415
-----

Centrumindex 1:
    40 - 54.156682027649765 = -14.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```



```

Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----
Centrumindex 2:
    40 - 31.63235294117647 = 8.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----
{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 215 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.61039346486487
Euclidische afstand: 15.020332668248892
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 536.6481556202083
Euclidische afstand: 23.165667605752446
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.7575211457131878
Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 216 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:

```

```

27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----
{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 217 tot...
Centrumindex 0:
42 - 15.992481203007529 = 26.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 676.5352054949398
Euclidische afstand: 26.010290376982333
-----
Centrumindex 1:
42 - 54.156682027649765 = -12.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 147.91082843126833
Euclidische afstand: 12.161859579491466
-----
Centrumindex 2:
42 - 31.63235294117647 = 10.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 107.64967800845828
Euclidische afstand: 10.375436280391215
-----
{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}
2
=====
Afstand van bronindex 218 tot...
Centrumindex 0:
32 - 15.992481203007529 = 16.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----
Centrumindex 1:
32 - 54.156682027649765 = -22.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994
-----
Centrumindex 2:
32 - 31.63235294117647 = 0.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191

```

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}

2

=====

Afstand van bronindex 219 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 196.35475436712053

Euclidische afstand: 14.012664071015209

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 583.6711970948627

Euclidische afstand: 24.159288008856194

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.8261485966935807

Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}

2

=====

Afstand van bronindex 220 tot...

Centrumindex 0:

16 - 15.992481203007529 = 0.007518796992471266

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 0.3848295550907342

Euclidische afstand: 0.6203463186726703

Centrumindex 1:

16 - 54.156682027649765 = -38.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1456.3486164497015

Euclidische afstand: 38.162135899995185

Centrumindex 2:

16 - 31.63235294117647 = -15.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 244.72810938100733

Euclidische afstand: 15.643788204300368

{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}

0

=====

Afstand van bronindex 221 tot...

Centrumindex 0:

$$27 - 15.992481203007529 = 11.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 121.30964158516569

Euclidische afstand: 11.014065624698524

Centrumindex 1:

$$27 - 54.156682027649765 = -27.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 737.6112892607613

Euclidische afstand: 27.159000152081468

Centrumindex 2:

$$27 - 31.63235294117647 = -4.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 21.620266243752408

Euclidische afstand: 4.649759804952553

{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}

2

=====

Afstand van bronindex 222 tot...

Centrumindex 0:

$$51 - 15.992481203007529 = 35.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1225.6705438408044

Euclidische afstand: 35.009577887212586

Centrumindex 1:

$$51 - 54.156682027649765 = -3.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 10.090551933572568

Euclidische afstand: 3.1765629119494183

Centrumindex 2:

$$51 - 31.63235294117647 = 19.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 375.26732506728183

Euclidische afstand: 19.371817804926874

{0: 35.009577887212586, 1: 3.1765629119494183, 2: 19.371817804926874}

1

=====

Afstand van bronindex 223 tot...

Centrumindex 0:

$$40 - 15.992481203007529 = 24.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415

Centrumindex 1:

40 - 54.156682027649765 = -14.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428

Centrumindex 2:

40 - 31.63235294117647 = 8.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097

{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2

=====

Afstand van bronindex 224 tot...

Centrumindex 0:

38 - 15.992481203007529 = 22.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 484.71565662275947
Euclidische afstand: 22.016258915237152

Centrumindex 1:

38 - 54.156682027649765 = -16.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 261.45460723311163
Euclidische afstand: 16.169558040747795

Centrumindex 2:

38 - 31.63235294117647 = 6.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 40.90457996924259
Euclidische afstand: 6.395668844557432

{0: 22.016258915237152, 1: 16.169558040747795, 2: 6.395668844557432}
2

=====

Afstand van bronindex 225 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125

Centrumindex 1:

```

                22 - 54.156682027649765 = -32.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----

Centrumindex 2:
                22 - 31.63235294117647 = -9.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 226 tot...
Centrumindex 0:
                19 - 15.992481203007529 = 3.0075187969924713
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----

Centrumindex 1:
                19 - 54.156682027649765 = -35.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----

Centrumindex 2:
                19 - 31.63235294117647 = -12.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 227 tot...
Centrumindex 0:
                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----

Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816

```

```

-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 228 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 229 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 230 tot...
Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 361.6705438408046
Euclidische afstand: 19.017637704005317
-----
Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 367.3946993990102
Euclidische afstand: 19.16754286284526
-----
Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 11.69869761630142
Euclidische afstand: 3.420335892321311
-----
{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2
=====
Afstand van bronindex 231 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}

```


2

=====

Afstand van bronindex 232 tot...

Centrumindex 0:

59 - 15.992481203007529 = 43.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1849.790844592684

Euclidische afstand: 43.00919488426497

Centrumindex 1:

59 - 54.156682027649765 = 4.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 23.583639491176328

Euclidische afstand: 4.856298949938763

Centrumindex 2:

59 - 31.63235294117647 = 27.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 749.1496780084582

Euclidische afstand: 27.370598787904846

{0: 43.00919488426497, 1: 4.856298949938763, 2: 27.370598787904846}

1

=====

Afstand van bronindex 233 tot...

Centrumindex 0:

5 - 15.992481203007529 = -10.992481203007529

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 121.21941602125636

Euclidische afstand: 11.009968938251205

Centrumindex 1:

5 - 54.156682027649765 = -49.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 2416.795621057996

Euclidische afstand: 49.16091558400836

Centrumindex 2:

5 - 31.63235294117647 = -26.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 709.6398740868897

Euclidische afstand: 26.639066689486132

{0: 11.009968938251205, 1: 49.16091558400836, 2: 26.639066689486132}

0

=====

Afstand van bronindex 234 tot...

Centrumindex 0:

```

                24 - 15.992481203007529 = 8.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----
Centrumindex 1:
                24 - 54.156682027649765 = -30.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
                24 - 31.63235294117647 = -7.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 235 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 236 tot...
Centrumindex 0:
                44 - 15.992481203007529 = 28.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 784.5652806829097
Euclidische afstand: 28.010092479013878

```

```

-----
Centrumindex 1:
    44 - 54.156682027649765 = -10.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 103.28410032066928
Euclidische afstand: 10.1628785450122
-----

Centrumindex 2:
    44 - 31.63235294117647 = 12.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 153.12026624375238
Euclidische afstand: 12.37417739664954
-----

{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}
1
=====
Afstand van bronindex 237 tot...
Centrumindex 0:
    8 - 15.992481203007529 = -7.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.26452880321119
Euclidische afstand: 8.016516001556486
-----

Centrumindex 1:
    8 - 54.156682027649765 = -46.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2130.8555288920975
Euclidische afstand: 46.16119072220838
-----

Centrumindex 2:
    8 - 31.63235294117647 = -23.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 558.8457564398309
Euclidische afstand: 23.639918706286426
-----

{0: 8.016516001556486, 1: 46.16119072220838, 2: 23.639918706286426}
0
=====
Afstand van bronindex 238 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----

Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342

Centrumindex 2:

19 - 31.63235294117647 = -12.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 159.73791330257595

Euclidische afstand: 12.638746508359757

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0

=====

Afstand van bronindex 239 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 289.39986714907536

Euclidische afstand: 17.011756733185297

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 447.73110492896416

Euclidische afstand: 21.15965748609755

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.0320309496347546

Euclidische afstand: 1.4254932303012717

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2

=====

Afstand van bronindex 240 tot...

Centrumindex 0:

28 - 15.992481203007529 = 12.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 144.32467917915065

Euclidische afstand: 12.013520682096097

Centrumindex 1:

28 - 54.156682027649765 = -26.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 684.2979252054618

Euclidische afstand: 26.1590887686376

Centrumindex 2:

```

                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 241 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----
Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915
-----
Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----
{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 242 tot...
Centrumindex 0:
                29 - 15.992481203007529 = 13.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
                29 - 54.156682027649765 = -25.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:
                29 - 31.63235294117647 = -2.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681

```

{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====

Afstand van bronindex 243 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.234453615240994

Euclidische afstand: 6.0195060939616125

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1034.178109537259

Euclidische afstand: 32.15863973393867

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 92.9437956551712

Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====

Afstand van bronindex 244 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 196.35475436712053

Euclidische afstand: 14.012664071015209

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 583.6711970948627

Euclidische afstand: 24.159288008856194

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.8261485966935807

Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====

Afstand van bronindex 245 tot...

Centrumindex 0:

$$44 - 15.992481203007529 = 28.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 784.5652806829097

Euclidische afstand: 28.010092479013878

Centrumindex 1:

$$44 - 54.156682027649765 = -10.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 103.28410032066928

Euclidische afstand: 10.1628785450122

Centrumindex 2:

$$44 - 31.63235294117647 = 12.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 153.12026624375238

Euclidische afstand: 12.37417739664954

{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}

1

Afstand van bronindex 246 tot...

Centrumindex 0:

$$25 - 15.992481203007529 = 9.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 81.27956639719581

Euclidische afstand: 9.01551808811872

Centrumindex 1:

$$25 - 54.156682027649765 = -29.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 850.2380173713603

Euclidische afstand: 29.158841152750917

Centrumindex 2:

$$25 - 31.63235294117647 = -6.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 44.14967800845829

Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

Afstand van bronindex 247 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 909.841704007305

Euclidische afstand: 30.163582413355762

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 58.61046232218378

Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}

2

=====

Afstand van bronindex 248 tot...

Centrumindex 0:

37 - 15.992481203007529 = 21.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 441.7006190287745

Euclidische afstand: 21.016674785245513

Centrumindex 1:

37 - 54.156682027649765 = -17.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 294.76797128841116

Euclidische afstand: 17.168808091664697

Centrumindex 2:

37 - 31.63235294117647 = 5.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 29.169285851595536

Euclidische afstand: 5.400859732634753

{0: 21.016674785245513, 1: 17.168808091664697, 2: 5.400859732634753}

2

=====

Afstand van bronindex 249 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:


```

54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 250 tot...
Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 251 tot...
Centrumindex 0:
29 - 15.992481203007529 = 13.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
29 - 54.156682027649765 = -25.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228

```

```

-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 252 tot...
Centrumindex 0:
    62 - 15.992481203007529 = 46.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----
Centrumindex 1:
    62 - 54.156682027649765 = 7.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----
Centrumindex 2:
    62 - 31.63235294117647 = 30.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 253 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----
Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----
Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 254 tot...
Centrumindex 0:
    41 - 15.992481203007529 = 25.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 625.5201679009549
Euclidische afstand: 25.01040119432223
-----
Centrumindex 1:
    41 - 54.156682027649765 = -13.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 173.22419248656786
Euclidische afstand: 13.161466198207853
-----
Centrumindex 2:
    41 - 31.63235294117647 = 9.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 87.91438389081122
Euclidische afstand: 9.376267055220389
-----
{0: 25.01040119432223, 1: 13.161466198207853, 2: 9.376267055220389}
2
=====
Afstand van bronindex 255 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345
-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223
-----
{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}

```

2

=====

Afstand van bronindex 256 tot...

Centrumindex 0:

28 - 15.992481203007529 = 12.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 144.56528068291004

Euclidische afstand: 12.023530292011163

Centrumindex 1:

28 - 54.156682027649765 = -26.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 684.5882477861069

Euclidische afstand: 26.164637352466915

Centrumindex 2:

28 - 31.63235294117647 = -3.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 13.551638792772014

Euclidische afstand: 3.6812550567397544

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}

2

=====

Afstand van bronindex 257 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 196.59535587087993

Euclidische afstand: 14.021246587621228

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 583.9615196755078

Euclidische afstand: 24.16529577049509

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 3.02222702806613

Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}

2

=====

Afstand van bronindex 258 tot...

Centrumindex 0:

$35 - 15.992481203007529 = 19.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 361.6705438408046
 Euclidische afstand: 19.017637704005317

Centrumindex 1:
 $35 - 54.156682027649765 = -19.156682027649765$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 367.3946993990102
 Euclidische afstand: 19.16754286284526

Centrumindex 2:
 $35 - 31.63235294117647 = 3.367647058823529$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 11.69869761630142
 Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}

2

=====

Afstand van bronindex 259 tot...

Centrumindex 0:
 $50 - 15.992481203007529 = 34.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 1156.896107750579
 Euclidische afstand: 34.01317550230468

Centrumindex 1:
 $50 - 54.156682027649765 = -4.156682027649765$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 17.69423856951726
 Euclidische afstand: 4.206452016785317

Centrumindex 2:
 $50 - 31.63235294117647 = 18.36764705882353$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 337.7281093810073
 Euclidische afstand: 18.377380373192675

{0: 34.01317550230468, 1: 4.206452016785317, 2: 18.377380373192675}

1

=====

Afstand van bronindex 260 tot...

Centrumindex 0:
 $28 - 15.992481203007529 = 12.007518796992471$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 144.32467917915065
 Euclidische afstand: 12.013520682096097

```

-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 261 tot...
Centrumindex 0:
    3 - 15.992481203007529 = -12.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.18934083328648
Euclidische afstand: 13.007280301173127
-----

Centrumindex 1:
    3 - 54.156682027649765 = -51.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2617.4223491685952
Euclidische afstand: 51.16075008410838
-----

Centrumindex 2:
    3 - 31.63235294117647 = -28.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 820.1692858515955
Euclidische afstand: 28.638597833196993
-----

{0: 13.007280301173127, 1: 51.16075008410838, 2: 28.638597833196993}
0
=====
Afstand van bronindex 262 tot...
Centrumindex 0:
    52 - 15.992481203007529 = 36.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1296.6855814347891
Euclidische afstand: 36.00952070542996
-----

Centrumindex 1:
    52 - 54.156682027649765 = -2.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 4.777187878273038
Euclidische afstand: 2.1856778990219574

Centrumindex 2:
52 - 31.63235294117647 = 20.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 415.0026191849289
Euclidische afstand: 20.37161307272767

{0: 36.00952070542996, 1: 2.1856778990219574, 2: 20.37161307272767}
1

Afstand van bronindex 263 tot...

Centrumindex 0:
40 - 15.992481203007529 = 24.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415

Centrumindex 1:
40 - 54.156682027649765 = -14.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428

Centrumindex 2:
40 - 31.63235294117647 = 8.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097

{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2

Afstand van bronindex 264 tot...

Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

Centrumindex 2:

```

28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 265 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 266 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028

```

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0

=====

Afstand van bronindex 267 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 81.52016790095522

Euclidische afstand: 9.028851970264837

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 850.5283399520055

Euclidische afstand: 29.1638190220692

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 44.345756439830836

Euclidische afstand: 6.659260952976001

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2

=====

Afstand van bronindex 268 tot...

Centrumindex 0:

58 - 15.992481203007529 = 42.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1765.0164085024585

Euclidische afstand: 42.012098358716365

Centrumindex 1:

58 - 54.156682027649765 = 3.843317972350235

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 15.187326127121018

Euclidische afstand: 3.8970920090653514

Centrumindex 2:

58 - 31.63235294117647 = 26.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 695.6104623221838

Euclidische afstand: 26.374428189482778

{0: 42.012098358716365, 1: 3.8970920090653514, 2: 26.374428189482778}
1

=====

Afstand van bronindex 269 tot...

Centrumindex 0:

$$35 - 15.992481203007529 = 19.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 361.6705438408046

Euclidische afstand: 19.017637704005317

Centrumindex 1:

$$35 - 54.156682027649765 = -19.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 367.3946993990102

Euclidische afstand: 19.16754286284526

Centrumindex 2:

$$35 - 31.63235294117647 = 3.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 11.69869761630142

Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}

2

=====

Afstand van bronindex 270 tot...

Centrumindex 0:

$$28 - 15.992481203007529 = 12.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 144.32467917915065

Euclidische afstand: 12.013520682096097

Centrumindex 1:

$$28 - 54.156682027649765 = -26.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 684.2979252054618

Euclidische afstand: 26.1590887686376

Centrumindex 2:

$$28 - 31.63235294117647 = -3.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 13.355560361399464

Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}

2

=====

Afstand van bronindex 271 tot...

Centrumindex 0:

$$25 - 15.992481203007529 = 9.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 81.52016790095522
Euclidische afstand: 9.028851970264837

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 850.5283399520055
Euclidische afstand: 29.1638190220692

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 44.345756439830836
Euclidische afstand: 6.659260952976001

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2

=====

Afstand van bronindex 272 tot...

Centrumindex 0:

41 - 15.992481203007529 = 25.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 625.7607694047143
Euclidische afstand: 25.015210760749437

Centrumindex 1:

41 - 54.156682027649765 = -13.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 173.51451506721304
Euclidische afstand: 13.172490845212725

Centrumindex 2:

41 - 31.63235294117647 = 9.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 88.11046232218376
Euclidische afstand: 9.38671733473336

{0: 25.015210760749437, 1: 13.172490845212725, 2: 9.38671733473336}
2

=====

Afstand van bronindex 273 tot...

Centrumindex 0:

37 - 15.992481203007529 = 21.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 441.46001752501513
Euclidische afstand: 21.01094994342272

Centrumindex 1:

```

37 - 54.156682027649765 = -17.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 294.47764870776604
Euclidische afstand: 17.16035106598248
-----

Centrumindex 2:
37 - 31.63235294117647 = 5.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 28.973207420222987
Euclidische afstand: 5.382676603718915
-----

{0: 21.01094994342272, 1: 17.16035106598248, 2: 5.382676603718915}
2
=====
Afstand van bronindex 274 tot...
Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----

Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915
-----

Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 275 tot...
Centrumindex 0:
63 - 15.992481203007529 = 47.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 2210.091596472383
Euclidische afstand: 47.01161129415139
-----

Centrumindex 1:
63 - 54.156682027649765 = 8.843317972350235
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 78.62050585062336
Euclidische afstand: 8.866820504026421

```

```

-----
Centrumindex 2:
    63 - 31.63235294117647 = 31.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 984.2869329104191
Euclidische afstand: 31.37334749290262
-----
{0: 47.01161129415139, 1: 8.866820504026421, 2: 31.37334749290262}
1
=====
Afstand van bronindex 276 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 277 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 278 tot...
Centrumindex 0:
    7 - 15.992481203007529 = -8.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.00888970546684
Euclidische afstand: 9.00049385897612
-----
Centrumindex 1:
    7 - 54.156682027649765 = -47.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2223.8785703667522
Euclidische afstand: 47.158017031749246
-----
Centrumindex 2:
    7 - 31.63235294117647 = -24.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 606.9143838908112
Euclidische afstand: 24.635632402899894
-----
{0: 9.00049385897612, 1: 47.158017031749246, 2: 24.635632402899894}
0
=====
Afstand van bronindex 279 tot...
Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 361.6705438408046
Euclidische afstand: 19.017637704005317
-----
Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 367.3946993990102
Euclidische afstand: 19.16754286284526
-----
Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 11.69869761630142
Euclidische afstand: 3.420335892321311
-----
{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}

```

2

```
=====
Afstand van bronindex 280 tot...
  Centrumindex 0:
    65 - 15.992481203007529 = 49.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 2401.8810701565935
  Euclidische afstand: 49.00898968716447
-----
  Centrumindex 1:
    65 - 54.156682027649765 = 10.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 117.70345515937915
  Euclidische afstand: 10.849122322076525
-----
  Centrumindex 2:
    65 - 31.63235294117647 = 33.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 1113.5614427143407
  Euclidische afstand: 33.37006806577327
-----
{0: 49.00898968716447, 1: 10.849122322076525, 2: 33.37006806577327}
1
```

```
=====
Afstand van bronindex 281 tot...
  Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 144.32467917915065
  Euclidische afstand: 12.013520682096097
-----
  Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 684.2979252054618
  Euclidische afstand: 26.1590887686376
-----
  Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 13.355560361399464
  Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
```

```
=====
Afstand van bronindex 282 tot...
  Centrumindex 0:
```

```

16 - 15.992481203007529 = 0.007518796992471266
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----

Centrumindex 1:
16 - 54.156682027649765 = -38.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----

Centrumindex 2:
16 - 31.63235294117647 = -15.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 283 tot...
Centrumindex 0:
19 - 15.992481203007529 = 3.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----

Centrumindex 1:
19 - 54.156682027649765 = -35.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----

Centrumindex 2:
19 - 31.63235294117647 = -12.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 284 tot...
Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

```



```

-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 285 tot...
Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297
-----

Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755
-----

Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717
-----

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 286 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228
-----

Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2

Afstand van bronindex 287 tot...

Centrumindex 0:
22 - 15.992481203007529 = 6.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125

Centrumindex 1:
22 - 54.156682027649765 = -32.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867

Centrumindex 2:
22 - 31.63235294117647 = -9.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.9437956551712
Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0

Afstand van bronindex 288 tot...

Centrumindex 0:
42 - 15.992481203007529 = 26.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597

Centrumindex 1:
42 - 54.156682027649765 = -12.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654

Centrumindex 2:

```

                42 - 31.63235294117647 = 10.367647058823529
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----
{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 289 tot...
Centrumindex 0:
                22 - 15.992481203007529 = 6.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----
Centrumindex 1:
                22 - 54.156682027649765 = -32.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----
Centrumindex 2:
                22 - 31.63235294117647 = -9.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----
{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 290 tot...
Centrumindex 0:
                26 - 15.992481203007529 = 10.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 100.53520549494016
Euclidische afstand: 10.026724564629276
-----
Centrumindex 1:
                26 - 54.156682027649765 = -28.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 793.2149758967059
Euclidische afstand: 28.164072430966122
-----
Centrumindex 2:
                26 - 31.63235294117647 = -5.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 32.081050557477894
Euclidische afstand: 5.66401364382872

```

```

-----
{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}
2
=====
Afstand van bronindex 291 tot...
  Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 9.429942337045562
  Euclidische afstand: 3.0708211177217017
-----
  Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1236.4085242838028
  Euclidische afstand: 35.16260121611885
-----
  Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 159.93399173394852
  Euclidische afstand: 12.64650116569593
-----
{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 292 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 400.4449799310302
  Euclidische afstand: 20.011121406133896
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 329.79101276306557
  Euclidische afstand: 18.160149029208586
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 19.23791330257593
  Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====

```

Afstand van bronindex 293 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 64.26452880321087

Euclidische afstand: 8.016516001556466

Centrumindex 1:

$$24 - 54.156682027649765 = -30.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

$$24 - 31.63235294117647 = -7.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 58.41438389081123

Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}

2

=====

Afstand van bronindex 294 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 64.26452880321087

Euclidische afstand: 8.016516001556466

Centrumindex 1:

$$24 - 54.156682027649765 = -30.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

$$24 - 31.63235294117647 = -7.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 58.41438389081123

Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}

2

=====

Afstand van bronindex 295 tot...

Centrumindex 0:

$$28 - 15.992481203007529 = 12.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:

28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

Centrumindex 2:

28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2

=====

Afstand van bronindex 296 tot...

Centrumindex 0:

23 - 15.992481203007529 = 7.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764

Centrumindex 1:

23 - 54.156682027649765 = -31.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702

Centrumindex 2:

23 - 31.63235294117647 = -8.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0

=====

Afstand van bronindex 297 tot...

Centrumindex 0:

2 - 15.992481203007529 = -13.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422

Centrumindex 1:

```

                2 - 54.156682027649765 = -52.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082
-----
Centrumindex 2:
                2 - 31.63235294117647 = -29.63235294117647
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339
-----
{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0
=====
Afstand van bronindex 298 tot...
Centrumindex 0:
                53 - 15.992481203007529 = 37.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1369.9412205325336
Euclidische afstand: 37.012717010948194
-----
Centrumindex 1:
                53 - 54.156682027649765 = -1.1566820276497651
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.7541464036186694
Euclidische afstand: 1.324441921572505
-----
Centrumindex 2:
                53 - 31.63235294117647 = 21.36764705882353
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 456.93399173394846
Euclidische afstand: 21.376014402454647
-----
{0: 37.012717010948194, 1: 1.324441921572505, 2: 21.376014402454647}
1
=====
Afstand van bronindex 299 tot...
Centrumindex 0:
                50 - 15.992481203007529 = 34.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1156.896107750579
Euclidische afstand: 34.01317550230468
-----
Centrumindex 1:
                50 - 54.156682027649765 = -4.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 17.69423856951726
Euclidische afstand: 4.206452016785317

```

```

-----
Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 337.7281093810073
Euclidische afstand: 18.377380373192675
-----
{0: 34.01317550230468, 1: 4.206452016785317, 2: 18.377380373192675}
1
=====
Afstand van bronindex 300 tot...
Centrumindex 0:
    53 - 15.992481203007529 = 37.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1369.9412205325336
Euclidische afstand: 37.012717010948194
-----
Centrumindex 1:
    53 - 54.156682027649765 = -1.1566820276497651
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.7541464036186694
Euclidische afstand: 1.324441921572505
-----
Centrumindex 2:
    53 - 31.63235294117647 = 21.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 456.93399173394846
Euclidische afstand: 21.376014402454647
-----
{0: 37.012717010948194, 1: 1.324441921572505, 2: 21.376014402454647}
1
=====
Afstand van bronindex 301 tot...
Centrumindex 0:
    53 - 15.992481203007529 = 37.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1369.9412205325336
Euclidische afstand: 37.012717010948194
-----
Centrumindex 1:
    53 - 54.156682027649765 = -1.1566820276497651
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.7541464036186694
Euclidische afstand: 1.324441921572505
-----
Centrumindex 2:
    53 - 31.63235294117647 = 21.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746

```



```

Totale euclidische som: 456.93399173394846
Euclidische afstand: 21.376014402454647
-----
{0: 37.012717010948194, 1: 1.324441921572505, 2: 21.376014402454647}
1
=====
Afstand van bronindex 302 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 303 tot...
Centrumindex 0:
    53 - 15.992481203007529 = 37.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1369.9412205325336
Euclidische afstand: 37.012717010948194
-----
Centrumindex 1:
    53 - 54.156682027649765 = -1.1566820276497651
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.7541464036186694
Euclidische afstand: 1.324441921572505
-----
Centrumindex 2:
    53 - 31.63235294117647 = 21.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 456.93399173394846
Euclidische afstand: 21.376014402454647
-----
{0: 37.012717010948194, 1: 1.324441921572505, 2: 21.376014402454647}

```

1

=====

Afstand van bronindex 304 tot...

Centrumindex 0:

$$53 - 15.992481203007529 = 37.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1369.700619028774

Euclidische afstand: 37.00946661367567

Centrumindex 1:

$$53 - 54.156682027649765 = -1.1566820276497651$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1.463823822973508

Euclidische afstand: 1.2098858718794547

Centrumindex 2:

$$53 - 31.63235294117647 = 21.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 456.7379133025759

Euclidische afstand: 21.371427498007144

{0: 37.00946661367567, 1: 1.2098858718794547, 2: 21.371427498007144}

1

=====

Afstand van bronindex 305 tot...

Centrumindex 0:

$$92 - 15.992481203007529 = 76.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 5777.527686697947

Euclidische afstand: 76.01004990590354

Centrumindex 1:

$$92 - 54.156682027649765 = 37.843317972350235$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 1432.5329482469372

Euclidische afstand: 37.84881699930577

Centrumindex 2:

$$92 - 31.63235294117647 = 60.36764705882353$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 3644.610462322184

Euclidische afstand: 60.37060925916008

{0: 76.01004990590354, 1: 37.84881699930577, 2: 60.37060925916008}

1

=====

Afstand van bronindex 306 tot...

Centrumindex 0:

$86 - 15.992481203007529 = 70.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 4901.437461134037
 Euclidische afstand: 70.01026682661649

 Centrumindex 1:
 $86 - 54.156682027649765 = 31.843317972350235$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 1014.4131325787341
 Euclidische afstand: 31.849852944381613

 Centrumindex 2:
 $86 - 31.63235294117647 = 54.36764705882353$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 2956.1986976163016
 Euclidische afstand: 54.37093614805893

 {0: 70.01026682661649, 1: 31.849852944381613, 2: 54.37093614805893}
 1

=====
 Afstand van bronindex 307 tot...

Centrumindex 0:
 $17 - 15.992481203007529 = 1.0075187969924713$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 1.3998671490756767
 Euclidische afstand: 1.183159815526067

 Centrumindex 1:
 $17 - 54.156682027649765 = -37.156682027649765$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 1381.0352523944018
 Euclidische afstand: 37.16228265855586

 Centrumindex 2:
 $17 - 31.63235294117647 = -14.632352941176471$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 214.4634034986544
 Euclidische afstand: 14.644569078626192

 {0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
 0

=====
 Afstand van bronindex 308 tot...

Centrumindex 0:
 $30 - 15.992481203007529 = 14.007518796992471$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 196.35475436712053
 Euclidische afstand: 14.012664071015209

```

-----
Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----

Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 309 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228
-----

Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509
-----

Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914
-----

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2
=====
Afstand van bronindex 310 tot...
Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337
-----

Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762
-----
Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----
{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 311 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 4.414904743060619
Euclidische afstand: 2.1011674714454864
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----
{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 312 tot...
Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----
Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----
Centrumindex 2:

```

```

                26 - 31.63235294117647 = -5.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----
{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 313 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 314 tot...
Centrumindex 0:
                43 - 15.992481203007529 = 27.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 729.5502430889247
Euclidische afstand: 27.010187764784693
-----
Centrumindex 1:
                43 - 54.156682027649765 = -11.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 124.59746437596881
Euclidische afstand: 11.162323430897745
-----
Centrumindex 2:
                43 - 31.63235294117647 = 11.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 129.38497212610534
Euclidische afstand: 11.374751519312646

```

{0: 27.010187764784693, 1: 11.162323430897745, 2: 11.374751519312646}
1

=====

Afstand van bronindex 315 tot...

Centrumindex 0:

26 - 15.992481203007529 = 10.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 100.53520549494016

Euclidische afstand: 10.026724564629276

Centrumindex 1:

26 - 54.156682027649765 = -28.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 793.2149758967059

Euclidische afstand: 28.164072430966122

Centrumindex 2:

26 - 31.63235294117647 = -5.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 32.081050557477894

Euclidische afstand: 5.66401364382872

{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}
2

=====

Afstand van bronindex 316 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 64.50513030697027

Euclidische afstand: 8.031508594714337

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 909.841704007305

Euclidische afstand: 30.163582413355762

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 58.61046232218378

Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2

=====

```

Afstand van bronindex 317 tot...
  Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1444.715656622759
  Euclidische afstand: 38.009415368073725
-----
  Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 0.15045976767397765
  Euclidische afstand: 0.38789143800034775
-----
  Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 500.473207420223
  Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 318 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 225.61039346486487
  Euclidische afstand: 15.020332668248892
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 536.6481556202083
  Euclidische afstand: 23.165667605752446
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 0.7575211457131878
  Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 319 tot...
  Centrumindex 0:
    40 - 15.992481203007529 = 24.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992

```


Totale euclidische som: 576.7457318107294
Euclidische afstand: 24.015531054105995

Centrumindex 1:

40 - 54.156682027649765 = -14.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 200.82787912251257
Euclidische afstand: 14.171375343364263

Centrumindex 2:

40 - 31.63235294117647 = 8.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 70.3751682045367
Euclidische afstand: 8.38899089310131

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}
2

=====

Afstand van bronindex 320 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0

=====

Afstand van bronindex 321 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 121.30964158516569
Euclidische afstand: 11.014065624698524

Centrumindex 1:

```

                27 - 54.156682027649765 = -27.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 737.6112892607613
Euclidische afstand: 27.159000152081468
-----
Centrumindex 2:
                27 - 31.63235294117647 = -4.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 21.620266243752408
Euclidische afstand: 4.649759804952553
-----
{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2
=====
Afstand van bronindex 322 tot...
Centrumindex 0:
                30 - 15.992481203007529 = 14.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228
-----
Centrumindex 1:
                30 - 54.156682027649765 = -24.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509
-----
Centrumindex 2:
                30 - 31.63235294117647 = -1.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914
-----
{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2
=====
Afstand van bronindex 323 tot...
Centrumindex 0:
                22 - 15.992481203007529 = 6.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----
Centrumindex 1:
                22 - 54.156682027649765 = -32.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611

```

```

-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----
{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 324 tot...
Centrumindex 0:
    86 - 15.992481203007529 = 70.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4901.196859630278
Euclidische afstand: 70.00854847538461
-----
Centrumindex 1:
    86 - 54.156682027649765 = 31.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1014.122809998089
Euclidische afstand: 31.845294942865404
-----
Centrumindex 2:
    86 - 31.63235294117647 = 54.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2956.002619184929
Euclidische afstand: 54.36913296333618
-----
{0: 70.00854847538461, 1: 31.845294942865404, 2: 54.36913296333618}
1
=====
Afstand van bronindex 325 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 326 tot...
Centrumindex 0:
    61 - 15.992481203007529 = 45.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736
-----
Centrumindex 1:
    61 - 54.156682027649765 = 6.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332
-----
Centrumindex 2:
    61 - 31.63235294117647 = 29.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319
-----
{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1
=====
Afstand van bronindex 327 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

```

2

=====

Afstand van bronindex 328 tot...

Centrumindex 0:

$$31 - 15.992481203007529 = 15.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 225.61039346486487

Euclidische afstand: 15.020332668248892

Centrumindex 1:

$$31 - 54.156682027649765 = -23.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 536.6481556202083

Euclidische afstand: 23.165667605752446

Centrumindex 2:

$$31 - 31.63235294117647 = -0.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 0.7575211457131878

Euclidische afstand: 0.8703569070865055

{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}

2

=====

Afstand van bronindex 329 tot...

Centrumindex 0:

$$16 - 15.992481203007529 = 0.007518796992471266$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 0.384829550907342

Euclidische afstand: 0.6203463186726703

Centrumindex 1:

$$16 - 54.156682027649765 = -38.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 1456.3486164497015

Euclidische afstand: 38.162135899995185

Centrumindex 2:

$$16 - 31.63235294117647 = -15.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 244.72810938100733

Euclidische afstand: 15.643788204300368

{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}

0

=====

Afstand van bronindex 330 tot...

Centrumindex 0:

$86 - 15.992481203007529 = 70.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 4901.437461134037
 Euclidische afstand: 70.01026682661649

Centrumindex 1:
 $86 - 54.156682027649765 = 31.843317972350235$
 $1 - 0.3548387096774193 = 0.6451612903225807$
 Totale euclidische som: 1014.4131325787341
 Euclidische afstand: 31.849852944381613

Centrumindex 2:
 $86 - 31.63235294117647 = 54.36764705882353$
 $1 - 0.4019607843137254 = 0.5980392156862746$
 Totale euclidische som: 2956.1986976163016
 Euclidische afstand: 54.37093614805893

{0: 70.01026682661649, 1: 31.849852944381613, 2: 54.37093614805893}
 1

Afstand van bronindex 331 tot...

Centrumindex 0:
 $45 - 15.992481203007529 = 29.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 841.5803182768947
 Euclidische afstand: 29.010003762097217

Centrumindex 1:
 $45 - 54.156682027649765 = -9.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 83.97073626536975
 Euclidische afstand: 9.16355478323613

Centrumindex 2:
 $45 - 31.63235294117647 = 13.367647058823529$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 178.85556036139945
 Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
 1

Afstand van bronindex 332 tot...

Centrumindex 0:
 $38 - 15.992481203007529 = 22.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 484.4750551190001
 Euclidische afstand: 22.010794059256476

```

-----
Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 261.1642846524665
Euclidische afstand: 16.160578103906634
-----

Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 40.70850153787004
Euclidische afstand: 6.380321429040237
-----

{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}
2
=====
Afstand van bronindex 333 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----

Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----

Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 334 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----

Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----
{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1
=====
Afstand van bronindex 335 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 336 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:

```



```

                29 - 31.63235294117647 = -2.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 337 tot...
Centrumindex 0:
    41 - 15.992481203007529 = 25.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 625.7607694047143
Euclidische afstand: 25.015210760749437
-----
Centrumindex 1:
    41 - 54.156682027649765 = -13.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 173.51451506721304
Euclidische afstand: 13.172490845212725
-----
Centrumindex 2:
    41 - 31.63235294117647 = 9.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 88.11046232218376
Euclidische afstand: 9.38671733473336
-----
{0: 25.015210760749437, 1: 13.172490845212725, 2: 9.38671733473336}
2
=====
Afstand van bronindex 338 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125

```

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}

1

=====

Afstand van bronindex 339 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 178.85556036139945

Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

=====

Afstand van bronindex 340 tot...

Centrumindex 0:

2 - 15.992481203007529 = -13.992481203007529

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 196.17430323930154

Euclidische afstand: 14.006223732302063

Centrumindex 1:

2 - 54.156682027649765 = -52.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 2720.7357132238944

Euclidische afstand: 52.16067209329165

Centrumindex 2:

2 - 31.63235294117647 = -29.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 878.4339917339486

Euclidische afstand: 29.638387131116776

{0: 14.006223732302063, 1: 52.16067209329165, 2: 29.638387131116776}

0

=====

Afstand van bronindex 341 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 64.50513030697027

Euclidische afstand: 8.031508594714337

Centrumindex 1:

$$24 - 54.156682027649765 = -30.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 909.841704007305

Euclidische afstand: 30.163582413355762

Centrumindex 2:

$$24 - 31.63235294117647 = -7.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 58.61046232218378

Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}

2

=====

Afstand van bronindex 342 tot...

Centrumindex 0:

$$28 - 15.992481203007529 = 12.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 144.32467917915065

Euclidische afstand: 12.013520682096097

Centrumindex 1:

$$28 - 54.156682027649765 = -26.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 684.2979252054618

Euclidische afstand: 26.1590887686376

Centrumindex 2:

$$28 - 31.63235294117647 = -3.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 13.355560361399464

Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}

2

=====

Afstand van bronindex 343 tot...

Centrumindex 0:

$$25 - 15.992481203007529 = 9.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872

Centrumindex 1:
25 - 54.156682027649765 = -29.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917

Centrumindex 2:
25 - 31.63235294117647 = -6.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2

=====

Afstand van bronindex 344 tot...

Centrumindex 0:
36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2

=====

Afstand van bronindex 345 tot...

Centrumindex 0:
24 - 15.992481203007529 = 8.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337

Centrumindex 1:

```

24 - 54.156682027649765 = -30.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762
-----

Centrumindex 2:
24 - 31.63235294117647 = -7.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 346 tot...
Centrumindex 0:
40 - 15.992481203007529 = 24.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 576.7457318107294
Euclidische afstand: 24.015531054105995
-----

Centrumindex 1:
40 - 54.156682027649765 = -14.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 200.82787912251257
Euclidische afstand: 14.171375343364263
-----

Centrumindex 2:
40 - 31.63235294117647 = 8.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 70.3751682045367
Euclidische afstand: 8.38899089310131
-----

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}
2
=====
Afstand van bronindex 347 tot...
Centrumindex 0:
54 - 15.992481203007529 = 38.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----

Centrumindex 1:
54 - 54.156682027649765 = -0.15668202764976513
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512

```

```

-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----
{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1
=====
Afstand van bronindex 348 tot...
Centrumindex 0:
    3 - 15.992481203007529 = -12.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.18934083328648
Euclidische afstand: 13.007280301173127
-----
Centrumindex 1:
    3 - 54.156682027649765 = -51.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2617.4223491685952
Euclidische afstand: 51.16075008410838
-----
Centrumindex 2:
    3 - 31.63235294117647 = -28.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 820.1692858515955
Euclidische afstand: 28.638597833196993
-----
{0: 13.007280301173127, 1: 51.16075008410838, 2: 28.638597833196993}
0
=====
Afstand van bronindex 349 tot...
Centrumindex 0:
    42 - 15.992481203007529 = 26.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 676.5352054949398
Euclidische afstand: 26.010290376982333
-----
Centrumindex 1:
    42 - 54.156682027649765 = -12.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 147.91082843126833
Euclidische afstand: 12.161859579491466
-----
Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 107.64967800845828
Euclidische afstand: 10.375436280391215
-----
{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}
2
=====
Afstand van bronindex 350 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 351 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

```

1

```
=====
Afstand van bronindex 352 tot...
  Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1.1291904573463931
  Euclidische afstand: 1.0626337362169493
-----
  Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1533.3716579243555
  Euclidische afstand: 39.15828977272061
-----
  Centrumindex 2:
    15 - 31.63235294117647 = -16.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 276.79673683198774
  Euclidische afstand: 16.63720940638747
-----
{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
```

```
=====
Afstand van bronindex 353 tot...
  Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 81.27956639719581
  Euclidische afstand: 9.01551808811872
-----
  Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 850.2380173713603
  Euclidische afstand: 29.158841152750917
-----
  Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 44.14967800845829
  Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
```

```
=====
Afstand van bronindex 354 tot...
  Centrumindex 0:
```



```

54 - 15.992481203007529 = 38.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----

Centrumindex 1:
54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----

Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 355 tot...
Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----

Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 356 tot...
Centrumindex 0:
22 - 15.992481203007529 = 6.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283

```

```

-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----

Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 357 tot...
Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 484.4750551190001
Euclidische afstand: 22.010794059256476
-----

Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 261.1642846524665
Euclidische afstand: 16.160578103906634
-----

Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 40.70850153787004
Euclidische afstand: 6.380321429040237
-----

{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}
2
=====
Afstand van bronindex 358 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----

Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1

=====

Afstand van bronindex 359 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1

=====

Afstand van bronindex 360 tot...

Centrumindex 0:

40 - 15.992481203007529 = 24.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415

Centrumindex 1:

40 - 54.156682027649765 = -14.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428

Centrumindex 2:

```

40 - 31.63235294117647 = 8.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----
{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 361 tot...
Centrumindex 0:
29 - 15.992481203007529 = 13.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
29 - 54.156682027649765 = -25.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:
29 - 31.63235294117647 = -2.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 362 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

```

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

=====

Afstand van bronindex 363 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 361.42994233704525

Euclidische afstand: 19.01131090527545

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 367.1043768183651

Euclidische afstand: 19.15996807978461

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 11.50261918492887

Euclidische afstand: 3.391551147326083

{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}

2

=====

Afstand van bronindex 364 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

```

Afstand van bronindex 365 tot...
  Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 196.35475436712053
  Euclidische afstand: 14.012664071015209
-----
  Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 583.6711970948627
  Euclidische afstand: 24.159288008856194
-----
  Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 2.8261485966935807
  Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 366 tot...
  Centrumindex 0:
    60 - 15.992481203007529 = 44.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 1937.0464836904282
  Euclidische afstand: 44.01189025354885
-----
  Centrumindex 1:
    60 - 54.156682027649765 = 5.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 34.56059801652196
  Euclidische afstand: 5.878826244797677
-----
  Centrumindex 2:
    60 - 31.63235294117647 = 28.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 805.0810505574779
  Euclidische afstand: 28.3739502106682
-----
{0: 44.01189025354885, 1: 5.878826244797677, 2: 28.3739502106682}
1
=====
Afstand van bronindex 367 tot...
  Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 0.44078234831913904

Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553

Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}

1

=====

Afstand van bronindex 368 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1444.9562581265186

Euclidische afstand: 38.0125802613624

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 0.44078234831913904

Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553

Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}

1

=====

Afstand van bronindex 369 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 64.50513030697027

Euclidische afstand: 8.031508594714337

Centrumindex 1:

```

                24 - 54.156682027649765 = -30.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762
-----

Centrumindex 2:
                24 - 31.63235294117647 = -7.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 370 tot...
Centrumindex 0:
                25 - 15.992481203007529 = 9.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 81.52016790095522
Euclidische afstand: 9.028851970264837
-----

Centrumindex 1:
                25 - 54.156682027649765 = -29.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 850.5283399520055
Euclidische afstand: 29.1638190220692
-----

Centrumindex 2:
                25 - 31.63235294117647 = -6.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 44.345756439830836
Euclidische afstand: 6.659260952976001
-----

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2
=====
Afstand van bronindex 371 tot...
Centrumindex 0:
                18 - 15.992481203007529 = 2.0075187969924713
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----

Centrumindex 1:
                18 - 54.156682027649765 = -36.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305

```



```

-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 372 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 373 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 374 tot...
Centrumindex 0:
    3 - 15.992481203007529 = -12.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 168.9487393295271
Euclidische afstand: 12.998028286225841
-----
Centrumindex 1:
    3 - 54.156682027649765 = -51.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2617.1320265879503
Euclidische afstand: 51.15791264885571
-----
Centrumindex 2:
    3 - 31.63235294117647 = -28.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 819.9732074202229
Euclidische afstand: 28.63517430399583
-----
{0: 12.998028286225841, 1: 51.15791264885571, 2: 28.63517430399583}
0
=====
Afstand van bronindex 375 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----
{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}

```

1

=====

Afstand van bronindex 376 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 36.47505511900039

Euclidische afstand: 6.039458180913283

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1034.4684321179043

Euclidische afstand: 32.16315332982611

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 93.13987408688966

Euclidische afstand: 9.650900169771194

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}

0

=====

Afstand van bronindex 377 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 121.30964158516569

Euclidische afstand: 11.014065624698524

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 737.6112892607613

Euclidische afstand: 27.159000152081468

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 21.620266243752408

Euclidische afstand: 4.649759804952553

{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}

2

=====

Afstand van bronindex 378 tot...

Centrumindex 0:

```

                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----

Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----

Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 379 tot...
Centrumindex 0:
                19 - 15.992481203007529 = 3.0075187969924713
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----

Centrumindex 1:
                19 - 54.156682027649765 = -35.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----

Centrumindex 2:
                19 - 31.63235294117647 = -12.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 380 tot...
Centrumindex 0:
                42 - 15.992481203007529 = 26.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597

```

```

-----
Centrumindex 1:
    42 - 54.156682027649765 = -12.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654
-----

Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----

{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 381 tot...
Centrumindex 0:
    1 - 15.992481203007529 = -14.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.1592656453166
Euclidische afstand: 15.00530791571158
-----

Centrumindex 1:
    1 - 54.156682027649765 = -53.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2826.049077279194
Euclidische afstand: 53.16059703651939
-----

Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 938.6986976163015
Euclidische afstand: 30.63819018180254
-----

{0: 15.00530791571158, 1: 53.16059703651939, 2: 30.63819018180254}
0
=====
Afstand van bronindex 382 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----

Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252

{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2

=====

Afstand van bronindex 383 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 361.6705438408046
Euclidische afstand: 19.017637704005317

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 367.3946993990102
Euclidische afstand: 19.16754286284526

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 11.69869761630142
Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2

=====

Afstand van bronindex 384 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775

Centrumindex 2:

```

54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 385 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 386 tot...
Centrumindex 0:
    1 - 15.992481203007529 = -14.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 224.9186641415572
Euclidische afstand: 14.99728855965495
-----
Centrumindex 1:
    1 - 54.156682027649765 = -53.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2825.758754698549
Euclidische afstand: 53.15786634825131
-----
Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 938.5026191849289
Euclidische afstand: 30.634990112368715

```

{0: 14.99728855965495, 1: 53.15786634825131, 2: 30.634990112368715}
0

=====

Afstand van bronindex 387 tot...

Centrumindex 0:

36 - 15.992481203007529 = 20.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 400.6855814347896

Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2

=====

Afstand van bronindex 388 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1

=====


```

Afstand van bronindex 389 tot...
  Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 1.3998671490756767
  Euclidische afstand: 1.183159815526067
-----
  Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1381.0352523944018
  Euclidische afstand: 37.16228265855586
-----
  Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 214.4634034986544
  Euclidische afstand: 14.644569078626192
-----
{0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
0
=====
Afstand van bronindex 390 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 400.6855814347896
  Euclidische afstand: 20.017132198064477
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 330.0813353437107
  Euclidische afstand: 18.168140668315807
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 19.433991733948478
  Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 391 tot...
  Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 25.46001752501545
Euclidische afstand: 5.0457920612145175

Centrumindex 1:
21 - 54.156682027649765 = -33.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1099.7817961732037
Euclidische afstand: 33.162958193942885

Centrumindex 2:
21 - 31.63235294117647 = -10.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 113.4045799692426
Euclidische afstand: 10.649158650768737

{0: 5.0457920612145175, 1: 33.162958193942885, 2: 10.649158650768737}
0

=====

Afstand van bronindex 392 tot...

Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2

=====

Afstand van bronindex 393 tot...

Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.49009271298533
Euclidische afstand: 7.034919524272138

Centrumindex 1:

```

                23 - 54.156682027649765 = -31.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 971.1550680626045
Euclidische afstand: 31.16336098790701
-----

Centrumindex 2:
                23 - 31.63235294117647 = -8.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 74.87516820453672
Euclidische afstand: 8.653043869329261
-----

{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}
0
=====
Afstand van bronindex 394 tot...
Centrumindex 0:
                24 - 15.992481203007529 = 8.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337
-----

Centrumindex 1:
                24 - 54.156682027649765 = -30.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762
-----

Centrumindex 2:
                24 - 31.63235294117647 = -7.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 395 tot...
Centrumindex 0:
                22 - 15.992481203007529 = 6.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----

Centrumindex 1:
                22 - 54.156682027649765 = -32.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867

```

```

-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 396 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 397 tot...
Centrumindex 0:
    46 - 15.992481203007529 = 30.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 900.5953558708795
Euclidische afstand: 30.009920957424722
-----
Centrumindex 1:
    46 - 54.156682027649765 = -8.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 66.65737221007022
Euclidische afstand: 8.16439662253557
-----
Centrumindex 2:
    46 - 31.63235294117647 = 14.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 206.5908544790465
Euclidische afstand: 14.373268747193398
-----
{0: 30.009920957424722, 1: 8.16439662253557, 2: 14.373268747193398}
1
=====
Afstand van bronindex 398 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 399 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----
{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}

```

2

=====

Afstand van bronindex 400 tot...

Centrumindex 0:

$$39 - 15.992481203007529 = 23.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 529.7306942167444

Euclidische afstand: 23.01587917540289

Centrumindex 1:

$$39 - 54.156682027649765 = -15.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 230.1412431778121

Euclidische afstand: 15.170406823081974

Centrumindex 2:

$$39 - 31.63235294117647 = 7.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 54.63987408688965

Euclidische afstand: 7.391878928045943

{0: 23.01587917540289, 1: 15.170406823081974, 2: 7.391878928045943}

2

=====

Afstand van bronindex 401 tot...

Centrumindex 0:

$$26 - 15.992481203007529 = 10.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 100.29460399118075

Euclidische afstand: 10.014719366571425

Centrumindex 1:

$$26 - 54.156682027649765 = -28.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 792.9246533160608

Euclidische afstand: 28.15891782927854

Centrumindex 2:

$$26 - 31.63235294117647 = -5.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 31.88497212610535

Euclidische afstand: 5.646677972587542

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}

2

=====

Afstand van bronindex 402 tot...

Centrumindex 0:

```

                21 - 15.992481203007529 = 5.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----
Centrumindex 1:
                21 - 54.156682027649765 = -33.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----
Centrumindex 2:
                21 - 31.63235294117647 = -10.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 403 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 404 tot...
Centrumindex 0:
                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904

```

```

-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----

Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 405 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185
-----

Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775
-----

Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729
-----

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====
Afstand van bronindex 406 tot...
Centrumindex 0:
    51 - 15.992481203007529 = 35.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1225.6705438408044
Euclidische afstand: 35.009577887212586
-----

Centrumindex 1:
    51 - 54.156682027649765 = -3.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```



```

Totale euclidische som: 10.090551933572568
Euclidische afstand: 3.1765629119494183
-----
Centrumindex 2:
    51 - 31.63235294117647 = 19.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 375.26732506728183
Euclidische afstand: 19.371817804926874
-----
{0: 35.009577887212586, 1: 3.1765629119494183, 2: 19.371817804926874}
1
=====
Afstand van bronindex 407 tot...
Centrumindex 0:
    3 - 15.992481203007529 = -12.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.18934083328648
Euclidische afstand: 13.007280301173127
-----
Centrumindex 1:
    3 - 54.156682027649765 = -51.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2617.4223491685952
Euclidische afstand: 51.16075008410838
-----
Centrumindex 2:
    3 - 31.63235294117647 = -28.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 820.1692858515955
Euclidische afstand: 28.638597833196993
-----
{0: 13.007280301173127, 1: 51.16075008410838, 2: 28.638597833196993}
0
=====
Afstand van bronindex 408 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----
Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----
Centrumindex 2:

```

```

                21 - 31.63235294117647 = -10.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 409 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 410 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115

```

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 411 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 412 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 289.6404686528347

Euclidische afstand: 17.018826888268027

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 448.0214275096093

Euclidische afstand: 21.166516659800433

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 2.228109381007304

Euclidische afstand: 1.492685292018148

{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}

2

=====

```

Afstand van bronindex 413 tot...
  Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1444.715656622759
  Euclidische afstand: 38.009415368073725
-----
  Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 0.15045976767397765
  Euclidische afstand: 0.38789143800034775
-----
  Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 500.473207420223
  Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 414 tot...
  Centrumindex 0:
    44 - 15.992481203007529 = 28.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 784.8058821866691
  Euclidische afstand: 28.014387057129575
-----
  Centrumindex 1:
    44 - 54.156682027649765 = -10.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 103.57442290131443
  Euclidische afstand: 10.177152003449415
-----
  Centrumindex 2:
    44 - 31.63235294117647 = 12.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 153.31634467512495
  Euclidische afstand: 12.382097749376918
-----
{0: 28.014387057129575, 1: 10.177152003449415, 2: 12.382097749376918}
1
=====
Afstand van bronindex 415 tot...
  Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 416 tot...

Centrumindex 0:

34 - 15.992481203007529 = 18.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 324.6555062468197

Euclidische afstand: 18.01819930644624

Centrumindex 1:

34 - 54.156682027649765 = -20.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 406.70806345430975

Euclidische afstand: 20.16700432524151

Centrumindex 2:

34 - 31.63235294117647 = 2.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 5.963403498654362

Euclidische afstand: 2.4420080873441763

{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}

2

=====

Afstand van bronindex 417 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.414904743060619

Euclidische afstand: 2.1011674714454864

Centrumindex 1:

```

18 - 54.156682027649765 = -36.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----

Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----

{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 418 tot...
Centrumindex 0:
30 - 15.992481203007529 = 14.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----

Centrumindex 1:
30 - 54.156682027649765 = -24.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 419 tot...
Centrumindex 0:
10 - 15.992481203007529 = -5.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.054002487421684
Euclidische afstand: 6.004498520894288
-----

Centrumindex 1:
10 - 54.156682027649765 = -44.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1949.9384782008533
Euclidische afstand: 44.15810772894207

```

```

-----
Centrumindex 2:
    10 - 31.63235294117647 = -21.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 468.12026624375244
Euclidische afstand: 21.63608712877059
-----
{0: 6.004498520894288, 1: 44.15810772894207, 2: 21.63608712877059}
0
=====
Afstand van bronindex 420 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 421 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----
Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----
Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 422 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 423 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}

```


2

=====

Afstand van bronindex 424 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 4.174303239301221

Euclidische afstand: 2.0431111666527646

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1307.431565758457

Euclidische afstand: 36.15842316471305

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 186.00261918492888

Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}

0

=====

Afstand van bronindex 425 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 426 tot...

Centrumindex 0:

```

                28 - 15.992481203007529 = 12.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----

Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915
-----

Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 427 tot...
Centrumindex 0:
                19 - 15.992481203007529 = 3.0075187969924713
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----

Centrumindex 1:
                19 - 54.156682027649765 = -35.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----

Centrumindex 2:
                19 - 31.63235294117647 = -12.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 428 tot...
Centrumindex 0:
                54 - 15.992481203007529 = 38.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725

```

```

-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----

Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 429 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----

Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994
-----

Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191
-----

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2
=====
Afstand van bronindex 430 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----

Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915

Centrumindex 2:

28 - 31.63235294117647 = -3.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2

=====

Afstand van bronindex 431 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1

=====

Afstand van bronindex 432 tot...

Centrumindex 0:

42 - 15.992481203007529 = 26.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597

Centrumindex 1:

42 - 54.156682027649765 = -12.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654

Centrumindex 2:

```

                42 - 31.63235294117647 = 10.367647058823529
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----
{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 433 tot...
Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1592656453162782
Euclidische afstand: 1.0766919918510949
-----
Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1380.7449298137565
Euclidische afstand: 37.158376307553546
-----
Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 214.26732506728183
Euclidische afstand: 14.637872969365523
-----
{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====
Afstand van bronindex 434 tot...
Centrumindex 0:
    50 - 15.992481203007529 = 34.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1156.6555062468194
Euclidische afstand: 34.009638431580235
-----
Centrumindex 1:
    50 - 54.156682027649765 = -4.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 17.4039159888721
Euclidische afstand: 4.171800089754074
-----
Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 337.53203094963476
Euclidische afstand: 18.372044822219294

```

{0: 34.009638431580235, 1: 4.171800089754074, 2: 18.372044822219294}
1
=====

Afstand van bronindex 435 tot...

Centrumindex 0:

14 - 15.992481203007529 = -1.9924812030075287

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.354754367120849

Euclidische afstand: 2.0868048224788174

Centrumindex 1:

14 - 54.156682027649765 = -40.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1612.9753445603005

Euclidische afstand: 40.16186430633295

Centrumindex 2:

14 - 31.63235294117647 = -17.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 311.2575211457132

Euclidische afstand: 17.64249191995601

{0: 2.0868048224788174, 1: 40.16186430633295, 2: 17.64249191995601}
0
=====

Afstand van bronindex 436 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 113.20850153787006

Euclidische afstand: 10.639948380413792

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====

Afstand van bronindex 437 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 64.50513030697027

Euclidische afstand: 8.031508594714337

Centrumindex 1:

$$24 - 54.156682027649765 = -30.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 909.841704007305

Euclidische afstand: 30.163582413355762

Centrumindex 2:

$$24 - 31.63235294117647 = -7.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 58.61046232218378

Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}

2

=====

Afstand van bronindex 438 tot...

Centrumindex 0:

$$64 - 15.992481203007529 = 48.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 2304.8660325626083

Euclidische afstand: 48.00902032496194

Centrumindex 1:

$$64 - 54.156682027649765 = 9.843317972350235$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 97.01681921467868

Euclidische afstand: 9.849711631041727

Centrumindex 2:

$$64 - 31.63235294117647 = 32.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 1047.8261485966937

Euclidische afstand: 32.37014285721788

{0: 48.00902032496194, 1: 9.849711631041727, 2: 32.37014285721788}

1

=====

Afstand van bronindex 439 tot...

Centrumindex 0:

$$31 - 15.992481203007529 = 15.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022

Centrumindex 1:

31 - 54.156682027649765 = -23.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564

Centrumindex 2:

31 - 31.63235294117647 = -0.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2

=====

Afstand van bronindex 440 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1

=====

Afstand van bronindex 441 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904

Centrumindex 1:


```

                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 442 tot...
Centrumindex 0:
                25 - 15.992481203007529 = 9.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----
Centrumindex 1:
                25 - 54.156682027649765 = -29.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
                25 - 31.63235294117647 = -6.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 443 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----
Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915

```

```

-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----
{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 444 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----
{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1
=====
Afstand van bronindex 445 tot...
Centrumindex 0:
    4 - 15.992481203007529 = -11.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.20437842727142
Euclidische afstand: 12.008512748349457
-----
Centrumindex 1:
    4 - 54.156682027649765 = -50.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2516.1089851132956
Euclidische afstand: 50.160831184434095
-----
Centrumindex 2:
    4 - 31.63235294117647 = -27.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 763.9045799692426
Euclidische afstand: 27.63882378049476
-----
{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 446 tot...
Centrumindex 0:
    13 - 15.992481203007529 = -2.9924812030075287
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.339716773135907
Euclidische afstand: 3.0560950203054724
-----
Centrumindex 1:
    13 - 54.156682027649765 = -41.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1694.2887086156
Euclidische afstand: 41.161738406141204
-----
Centrumindex 2:
    13 - 31.63235294117647 = -18.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 347.52222702806614
Euclidische afstand: 18.64194804810018
-----
{0: 3.0560950203054724, 1: 41.161738406141204, 2: 18.64194804810018}
0
=====
Afstand van bronindex 447 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 324.6555062468197
Euclidische afstand: 18.01819930644624
-----
Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 406.70806345430975
Euclidische afstand: 20.16700432524151
-----
Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 5.963403498654362
Euclidische afstand: 2.4420080873441763
-----
{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}

```

2

```
=====
Afstand van bronindex 448 tot...
  Centrumindex 0:
    5 - 15.992481203007529 = -10.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 121.21941602125636
  Euclidische afstand: 11.009968938251205
-----
  Centrumindex 1:
    5 - 54.156682027649765 = -49.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 2416.795621057996
  Euclidische afstand: 49.16091558400836
-----
  Centrumindex 2:
    5 - 31.63235294117647 = -26.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 709.6398740868897
  Euclidische afstand: 26.639066689486132
-----
{0: 11.009968938251205, 1: 49.16091558400836, 2: 26.639066689486132}
0
```

```
=====
Afstand van bronindex 449 tot...
  Centrumindex 0:
    52 - 15.992481203007529 = 36.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 1296.9261829385487
  Euclidische afstand: 36.01286135450152
-----
  Centrumindex 1:
    52 - 54.156682027649765 = -2.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 5.0675104589182
  Euclidische afstand: 2.2511131599540257
-----
  Centrumindex 2:
    52 - 31.63235294117647 = 20.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 415.19869761630144
  Euclidische afstand: 20.376425045044126
-----
{0: 36.01286135450152, 1: 2.2511131599540257, 2: 20.376425045044126}
1
```

```
=====
Afstand van bronindex 450 tot...
  Centrumindex 0:
```

```

36 - 15.992481203007529 = 20.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 451 tot...
Centrumindex 0:
54 - 15.992481203007529 = 38.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----

Centrumindex 1:
54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----

Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 452 tot...
Centrumindex 0:
30 - 15.992481203007529 = 14.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209

```

```

-----
Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194
-----

Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176
-----

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 453 tot...
Centrumindex 0:
    49 - 15.992481203007529 = 33.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1089.881070156594
Euclidische afstand: 33.01334684876094
-----

Centrumindex 1:
    49 - 54.156682027649765 = -5.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 27.00760262481679
Euclidische afstand: 5.1968839341298345
-----

Centrumindex 2:
    49 - 31.63235294117647 = 17.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 301.9928152633602
Euclidische afstand: 17.37794047818556
-----

{0: 33.01334684876094, 1: 5.1968839341298345, 2: 17.37794047818556}
1
=====
Afstand van bronindex 454 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----

Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====

Afstand van bronindex 455 tot...

Centrumindex 0:

29 - 15.992481203007529 = 13.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976

Centrumindex 1:

29 - 54.156682027649765 = -25.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345

Centrumindex 2:

29 - 31.63235294117647 = -2.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223

{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====

Afstand van bronindex 456 tot...

Centrumindex 0:

65 - 15.992481203007529 = 49.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2401.8810701565935
Euclidische afstand: 49.00898968716447

Centrumindex 1:

65 - 54.156682027649765 = 10.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 117.70345515937915
Euclidische afstand: 10.849122322076525

Centrumindex 2:

```

        65 - 31.63235294117647 = 33.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1113.5614427143407
Euclidische afstand: 33.37006806577327
-----
{0: 49.00898968716447, 1: 10.849122322076525, 2: 33.37006806577327}
1
=====
Afstand van bronindex 457 tot...
Centrumindex 0:
        54 - 15.992481203007529 = 38.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----
Centrumindex 1:
        54 - 54.156682027649765 = -0.15668202764976513
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512
-----
Centrumindex 2:
        54 - 31.63235294117647 = 22.36764705882353
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----
{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1
=====
Afstand van bronindex 458 tot...
Centrumindex 0:
        50 - 15.992481203007529 = 34.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1156.896107750579
Euclidische afstand: 34.01317550230468
-----
Centrumindex 1:
        50 - 54.156682027649765 = -4.156682027649765
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 17.69423856951726
Euclidische afstand: 4.206452016785317
-----
Centrumindex 2:
        50 - 31.63235294117647 = 18.36764705882353
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 337.7281093810073
Euclidische afstand: 18.377380373192675

```

{0: 34.01317550230468, 1: 4.206452016785317, 2: 18.377380373192675}

1

=====

Afstand van bronindex 459 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 460 tot...

Centrumindex 0:

48 - 15.992481203007529 = 32.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1024.866032562609

Euclidische afstand: 32.01352889892973

Centrumindex 1:

48 - 54.156682027649765 = -6.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 38.32096668011632

Euclidische afstand: 6.190393095766724

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 268.2575211457132

Euclidische afstand: 16.37856895903037

{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}

1

=====

```

Afstand van bronindex 461 tot...
  Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 324.41490474306033
  Euclidische afstand: 18.011521444427185
-----
  Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 406.4177408736646
  Euclidische afstand: 20.159805080249775
-----
  Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 5.767325067281813
  Euclidische afstand: 2.401525570815729
-----
{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====
Afstand van bronindex 462 tot...
  Centrumindex 0:
    47 - 15.992481203007529 = 31.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 961.6103934648645
  Euclidische afstand: 31.00984349307272
-----
  Centrumindex 1:
    47 - 54.156682027649765 = -7.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 51.34400815477069
  Euclidische afstand: 7.165473337803351
-----
  Centrumindex 2:
    47 - 31.63235294117647 = 15.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 236.32614859669357
  Euclidische afstand: 15.372903063400015
-----
{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 463 tot...
  Centrumindex 0:
    48 - 15.992481203007529 = 32.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 1024.6254310588495
Euclidische afstand: 32.00977086857776

Centrumindex 1:
48 - 54.156682027649765 = -6.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 38.03064409947116
Euclidische afstand: 6.16689906674912

Centrumindex 2:
48 - 31.63235294117647 = 16.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 268.06144271434067
Euclidische afstand: 16.372582041765455

{0: 32.00977086857776, 1: 6.16689906674912, 2: 16.372582041765455}

1

=====

Afstand van bronindex 464 tot...

Centrumindex 0:
54 - 15.992481203007529 = 38.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725

Centrumindex 1:
54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775

Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 465 tot...

Centrumindex 0:
38 - 15.992481203007529 = 22.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 484.4750551190001
Euclidische afstand: 22.010794059256476

Centrumindex 1:

```

38 - 54.156682027649765 = -16.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 261.1642846524665
Euclidische afstand: 16.160578103906634
-----

Centrumindex 2:
38 - 31.63235294117647 = 6.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 40.70850153787004
Euclidische afstand: 6.380321429040237
-----

{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}
2
=====
Afstand van bronindex 466 tot...
Centrumindex 0:
54 - 15.992481203007529 = 38.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----

Centrumindex 1:
54 - 54.156682027649765 = -0.15668202764976513
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----

Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 467 tot...
Centrumindex 0:
56 - 15.992481203007529 = 40.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1600.745731810729
Euclidische afstand: 40.00932056172323
-----

Centrumindex 1:
56 - 54.156682027649765 = 1.8433179723502349
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 3.523731657074917
Euclidische afstand: 1.8771605304488257

```

```

-----
Centrumindex 2:
    56 - 31.63235294117647 = 24.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 593.9437956555171
Euclidische afstand: 24.3709621405376
-----
{0: 40.00932056172323, 1: 1.8771605304488257, 2: 24.3709621405376}
1
=====
Afstand van bronindex 468 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1444.715656622759
Euclidische afstand: 38.009415368073725
-----
Centrumindex 1:
    54 - 54.156682027649765 = -0.15668202764976513
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.15045976767397765
Euclidische afstand: 0.38789143800034775
-----
Centrumindex 2:
    54 - 31.63235294117647 = 22.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 500.473207420223
Euclidische afstand: 22.371258512212115
-----
{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}
1
=====
Afstand van bronindex 469 tot...
Centrumindex 0:
    75 - 15.992481203007529 = 59.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 3482.2720476002023
Euclidische afstand: 59.01077907975968
-----
Centrumindex 1:
    75 - 54.156682027649765 = 20.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 434.860137187029
Euclidische afstand: 20.853300390754193
-----
Centrumindex 2:
    75 - 31.63235294117647 = 43.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 1881.1104623221836
Euclidische afstand: 43.3717703388066
-----
{0: 59.01077907975968, 1: 20.853300390754193, 2: 43.3717703388066}
1
=====
Afstand van bronindex 470 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 225.36979196110548
  Euclidische afstand: 15.012321338191022
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 536.3578330395632
  Euclidische afstand: 23.159400532819564
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 0.5614427143406386
  Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 471 tot...
  Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 484.4750551190001
  Euclidische afstand: 22.010794059256476
-----
  Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 261.1642846524665
  Euclidische afstand: 16.160578103906634
-----
  Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 40.70850153787004
  Euclidische afstand: 6.380321429040237
-----
{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}

```

2

=====

Afstand van bronindex 472 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 289.6404686528347

Euclidische afstand: 17.018826888268027

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 448.0214275096093

Euclidische afstand: 21.166516659800433

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 2.228109381007304

Euclidische afstand: 1.492685292018148

{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}

2

=====

Afstand van bronindex 473 tot...

Centrumindex 0:

23 - 15.992481203007529 = 7.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 49.49009271298533

Euclidische afstand: 7.034919524272138

Centrumindex 1:

23 - 54.156682027649765 = -31.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 971.1550680626045

Euclidische afstand: 31.16336098790701

Centrumindex 2:

23 - 31.63235294117647 = -8.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 74.87516820453672

Euclidische afstand: 8.653043869329261

{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}

0

=====

Afstand van bronindex 474 tot...

Centrumindex 0:

```

                22 - 15.992481203007529 = 6.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----

Centrumindex 1:
                22 - 54.156682027649765 = -32.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----

Centrumindex 2:
                22 - 31.63235294117647 = -9.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 475 tot...
Centrumindex 0:
                31 - 15.992481203007529 = 15.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----

Centrumindex 1:
                31 - 54.156682027649765 = -23.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----

Centrumindex 2:
                31 - 31.63235294117647 = -0.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 476 tot...
Centrumindex 0:
                34 - 15.992481203007529 = 18.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185

```



```

-----
Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775
-----

Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729
-----

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====
Afstand van bronindex 477 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----

Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----

Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----

{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 478 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----

Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 479 tot...
Centrumindex 0:
    2 - 15.992481203007529 = -13.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.17430323930154
Euclidische afstand: 14.006223732302063
-----
Centrumindex 1:
    2 - 54.156682027649765 = -52.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2720.7357132238944
Euclidische afstand: 52.16067209329165
-----
Centrumindex 2:
    2 - 31.63235294117647 = -29.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 878.4339917339486
Euclidische afstand: 29.638387131116776
-----
{0: 14.006223732302063, 1: 52.16067209329165, 2: 29.638387131116776}
0
=====
Afstand van bronindex 480 tot...
Centrumindex 0:
    9 - 15.992481203007529 = -6.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.03896489343674
Euclidische afstand: 7.002782653591124
-----
Centrumindex 1:
    9 - 54.156682027649765 = -45.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2039.2518422561527
Euclidische afstand: 45.158076157606104
-----
Centrumindex 2:

```

```

          9 - 31.63235294117647 = -22.63235294117647
          0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 512.3849721261054
Euclidische afstand: 22.635922162043794
-----
{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====
Afstand van bronindex 481 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 482 tot...
  Centrumindex 0:
    50 - 15.992481203007529 = 34.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1156.6555062468194
Euclidische afstand: 34.009638431580235
-----
  Centrumindex 1:
    50 - 54.156682027649765 = -4.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 17.4039159888721
Euclidische afstand: 4.171800089754074
-----
  Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 337.53203094963476
Euclidische afstand: 18.372044822219294

```

{0: 34.009638431580235, 1: 4.171800089754074, 2: 18.372044822219294}

1

=====

Afstand van bronindex 483 tot...

Centrumindex 0:

63 - 15.992481203007529 = 47.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 2210.091596472383

Euclidische afstand: 47.01161129415139

Centrumindex 1:

63 - 54.156682027649765 = 8.843317972350235

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 78.62050585062336

Euclidische afstand: 8.866820504026421

Centrumindex 2:

63 - 31.63235294117647 = 31.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 984.2869329104191

Euclidische afstand: 31.37334749290262

{0: 47.01161129415139, 1: 8.866820504026421, 2: 31.37334749290262}

1

=====

Afstand van bronindex 484 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 81.52016790095522

Euclidische afstand: 9.028851970264837

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 850.5283399520055

Euclidische afstand: 29.1638190220692

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 44.345756439830836

Euclidische afstand: 6.659260952976001

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}

2

=====

```

Afstand van bronindex 485 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 225.36979196110548
  Euclidische afstand: 15.012321338191022
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 536.3578330395632
  Euclidische afstand: 23.159400532819564
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 0.5614427143406386
  Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 486 tot...
  Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 361.6705438408046
  Euclidische afstand: 19.017637704005317
-----
  Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 367.3946993990102
  Euclidische afstand: 19.16754286284526
-----
  Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 11.69869761630142
  Euclidische afstand: 3.420335892321311
-----
{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2
=====
Afstand van bronindex 487 tot...
  Centrumindex 0:
    58 - 15.992481203007529 = 42.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 1764.775806998699
Euclidische afstand: 42.009234782351115

Centrumindex 1:
58 - 54.156682027649765 = 3.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 14.897003546475856
Euclidische afstand: 3.8596636571696057

Centrumindex 2:
58 - 31.63235294117647 = 26.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 695.4143838908112
Euclidische afstand: 26.370710720244368

{0: 42.009234782351115, 1: 3.8596636571696057, 2: 26.370710720244368}
1

=====

Afstand van bronindex 488 tot...

Centrumindex 0:
30 - 15.992481203007529 = 14.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209

Centrumindex 1:
30 - 54.156682027649765 = -24.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2

=====

Afstand van bronindex 489 tot...

Centrumindex 0:
9 - 15.992481203007529 = -6.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.279566397196135
Euclidische afstand: 7.019940626329836

Centrumindex 1:

```

          9 - 54.156682027649765 = -45.156682027649765
          1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2039.542164836798
Euclidische afstand: 45.16129055769773
-----

Centrumindex 2:
          9 - 31.63235294117647 = -22.63235294117647
          1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 512.581050557478
Euclidische afstand: 22.64025288192422
-----

{0: 7.019940626329836, 1: 45.16129055769773, 2: 22.64025288192422}
0
=====
Afstand van bronindex 490 tot...
Centrumindex 0:
          31 - 15.992481203007529 = 15.007518796992471
          0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----

Centrumindex 1:
          31 - 54.156682027649765 = -23.156682027649765
          0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----

Centrumindex 2:
          31 - 31.63235294117647 = -0.632352941176471
          0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 491 tot...
Centrumindex 0:
          21 - 15.992481203007529 = 5.007518796992471
          0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----

Centrumindex 1:
          21 - 54.156682027649765 = -33.156682027649765
          0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694

```

```

-----
Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 492 tot...
Centrumindex 0:
    55 - 15.992481203007529 = 39.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1521.730694216744
Euclidische afstand: 39.00936674975312
-----
Centrumindex 1:
    55 - 54.156682027649765 = 0.8433179723502349
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 0.8370957123744474
Euclidische afstand: 0.9149293482966033
-----
Centrumindex 2:
    55 - 31.63235294117647 = 23.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 546.20850153787
Euclidische afstand: 23.37110398628764
-----
{0: 39.00936674975312, 1: 0.9149293482966033, 2: 23.37110398628764}
1
=====
Afstand van bronindex 493 tot...
Centrumindex 0:
    71 - 15.992481203007529 = 55.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 3025.9712957205033
Euclidische afstand: 55.008829252407324
-----
Centrumindex 1:
    71 - 54.156682027649765 = 16.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 283.823270827582
Euclidische afstand: 16.84705525685667
-----
Centrumindex 2:
    71 - 31.63235294117647 = 39.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254

```



```

Totale euclidische som: 1549.973207420223
Euclidische afstand: 39.369699102485185
-----
{0: 55.008829252407324, 1: 16.84705525685667, 2: 39.369699102485185}
1
=====
Afstand van bronindex 494 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----
Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----
Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 495 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}

```

2

=====

Afstand van bronindex 496 tot...

Centrumindex 0:

54 - 15.992481203007529 = 38.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1444.9562581265186

Euclidische afstand: 38.0125802613624

Centrumindex 1:

54 - 54.156682027649765 = -0.15668202764976513

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 0.44078234831913904

Euclidische afstand: 0.6639144133991512

Centrumindex 2:

54 - 31.63235294117647 = 22.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 500.66928585159553

Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}

1

=====

Afstand van bronindex 497 tot...

Centrumindex 0:

31 - 15.992481203007529 = 15.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 225.36979196110548

Euclidische afstand: 15.012321338191022

Centrumindex 1:

31 - 54.156682027649765 = -23.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 536.3578330395632

Euclidische afstand: 23.159400532819564

Centrumindex 2:

31 - 31.63235294117647 = -0.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.5614427143406386

Euclidische afstand: 0.7492948113664198

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}

2

=====

Afstand van bronindex 498 tot...

Centrumindex 0:

$25 - 15.992481203007529 = 9.007518796992471$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 81.27956639719581
 Euclidische afstand: 9.01551808811872

 Centrumindex 1:
 $25 - 54.156682027649765 = -29.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 850.2380173713603
 Euclidische afstand: 29.158841152750917

 Centrumindex 2:
 $25 - 31.63235294117647 = -6.632352941176471$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 44.14967800845829
 Euclidische afstand: 6.644522406347825

 {0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
 2

=====
 Afstand van bronindex 499 tot...

Centrumindex 0:
 $24 - 15.992481203007529 = 8.007518796992471$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 64.26452880321087
 Euclidische afstand: 8.016516001556466

 Centrumindex 1:
 $24 - 54.156682027649765 = -30.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 909.5513814266599
 Euclidische afstand: 30.158769560886597

 Centrumindex 2:
 $24 - 31.63235294117647 = -7.632352941176471$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 58.41438389081123
 Euclidische afstand: 7.642930320944397

 {0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
 2

=====
 Afstand van bronindex 500 tot...

Centrumindex 0:
 $17 - 15.992481203007529 = 1.0075187969924713$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 1.1592656453162782
 Euclidische afstand: 1.0766919918510949

```

-----
Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1380.7449298137565
Euclidische afstand: 37.158376307553546
-----

Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 214.26732506728183
Euclidische afstand: 14.637872969365523
-----

{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====
Afstand van bronindex 501 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----

Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----

Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 502 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----

Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 503 tot...
Centrumindex 0:
    37 - 15.992481203007529 = 21.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 441.46001752501513
Euclidische afstand: 21.01094994342272
-----
Centrumindex 1:
    37 - 54.156682027649765 = -17.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 294.47764870776604
Euclidische afstand: 17.16035106598248
-----
Centrumindex 2:
    37 - 31.63235294117647 = 5.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 28.973207420222987
Euclidische afstand: 5.382676603718915
-----
{0: 21.01094994342272, 1: 17.16035106598248, 2: 5.382676603718915}
2
=====
Afstand van bronindex 504 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 0.3848295550907342
Euclidische afstand: 0.6203463186726703
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1456.3486164497015
Euclidische afstand: 38.162135899995185
-----
Centrumindex 2:

```

```

16 - 31.63235294117647 = -15.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 244.72810938100733
Euclidische afstand: 15.643788204300368
-----
{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}
0
=====
Afstand van bronindex 505 tot...
Centrumindex 0:
18 - 15.992481203007529 = 2.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 506 tot...
Centrumindex 0:
33 - 15.992481203007529 = 17.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 289.6404686528347
Euclidische afstand: 17.018826888268027
-----
Centrumindex 1:
33 - 54.156682027649765 = -21.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 448.0214275096093
Euclidische afstand: 21.166516659800433
-----
Centrumindex 2:
33 - 31.63235294117647 = 1.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 2.228109381007304
Euclidische afstand: 1.492685292018148

```

```

-----
{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}
2
=====
Afstand van bronindex 507 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 225.61039346486487
  Euclidische afstand: 15.020332668248892
-----

  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 536.6481556202083
  Euclidische afstand: 23.165667605752446
-----

  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 0.7575211457131878
  Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 508 tot...
  Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 144.32467917915065
  Euclidische afstand: 12.013520682096097
-----

  Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 684.2979252054618
  Euclidische afstand: 26.1590887686376
-----

  Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 13.355560361399464
  Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====

```

```

Afstand van bronindex 509 tot...
  Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 100.53520549494016
  Euclidische afstand: 10.026724564629276
-----
  Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 793.2149758967059
  Euclidische afstand: 28.164072430966122
-----
  Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 32.081050557477894
  Euclidische afstand: 5.66401364382872
-----
{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}
2
=====
Afstand van bronindex 510 tot...
  Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 169.58031827689499
  Euclidische afstand: 13.022300805805976
-----
  Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 633.2748837308073
  Euclidische afstand: 25.164953481594345
-----
  Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 7.286932910419072
  Euclidische afstand: 2.6994319606945223
-----
{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====
Afstand van bronindex 511 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007

```



```

Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 512 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 513 tot...
Centrumindex 0:
    54 - 15.992481203007529 = 38.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1444.9562581265186
Euclidische afstand: 38.0125802613624
-----
Centrumindex 1:

```

```

54 - 54.156682027649765 = -0.15668202764976513
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 0.44078234831913904
Euclidische afstand: 0.6639144133991512
-----

Centrumindex 2:
54 - 31.63235294117647 = 22.36764705882353
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 500.66928585159553
Euclidische afstand: 22.3756404567913
-----

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}
1
=====
Afstand van bronindex 514 tot...
Centrumindex 0:
24 - 15.992481203007529 = 8.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----

Centrumindex 1:
24 - 54.156682027649765 = -30.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----

Centrumindex 2:
24 - 31.63235294117647 = -7.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 515 tot...
Centrumindex 0:
47 - 15.992481203007529 = 31.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 961.6103934648645
Euclidische afstand: 31.00984349307272
-----

Centrumindex 1:
47 - 54.156682027649765 = -7.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 51.34400815477069
Euclidische afstand: 7.165473337803351

```

```

-----
Centrumindex 2:
    47 - 31.63235294117647 = 15.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 236.32614859669357
Euclidische afstand: 15.372903063400015
-----
{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 516 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 324.6555062468197
Euclidische afstand: 18.01819930644624
-----
Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 406.70806345430975
Euclidische afstand: 20.16700432524151
-----
Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 5.963403498654362
Euclidische afstand: 2.4420080873441763
-----
{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}
2
=====
Afstand van bronindex 517 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 518 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 400.6855814347896
  Euclidische afstand: 20.017132198064477
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 330.0813353437107
  Euclidische afstand: 18.168140668315807
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 19.433991733948478
  Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 519 tot...
  Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 256.38482955509045
  Euclidische afstand: 16.01202140752661
-----
  Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 491.0444689842637
  Euclidische afstand: 22.15952321202475
-----
  Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 0.2967368319876966
  Euclidische afstand: 0.5447355615229252
-----
{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}

```

2

=====

Afstand van bronindex 520 tot...

Centrumindex 0:

$$30 - 15.992481203007529 = 14.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 196.59535587087993

Euclidische afstand: 14.021246587621228

Centrumindex 1:

$$30 - 54.156682027649765 = -24.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 583.9615196755078

Euclidische afstand: 24.16529577049509

Centrumindex 2:

$$30 - 31.63235294117647 = -1.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 3.02222702806613

Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}

2

=====

Afstand van bronindex 521 tot...

Centrumindex 0:

$$22 - 15.992481203007529 = 6.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 36.234453615240994

Euclidische afstand: 6.0195060939616125

Centrumindex 1:

$$22 - 54.156682027649765 = -32.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1034.178109537259

Euclidische afstand: 32.15863973393867

Centrumindex 2:

$$22 - 31.63235294117647 = -9.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 92.94379565551712

Euclidische afstand: 9.640736261070371

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}

0

=====

Afstand van bronindex 522 tot...

Centrumindex 0:

```

31 - 15.992481203007529 = 15.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----

Centrumindex 1:
31 - 54.156682027649765 = -23.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----

Centrumindex 2:
31 - 31.63235294117647 = -0.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 523 tot...
Centrumindex 0:
44 - 15.992481203007529 = 28.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 784.8058821866691
Euclidische afstand: 28.014387057129575
-----

Centrumindex 1:
44 - 54.156682027649765 = -10.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 103.57442290131443
Euclidische afstand: 10.177152003449415
-----

Centrumindex 2:
44 - 31.63235294117647 = 12.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 153.31634467512495
Euclidische afstand: 12.382097749376918
-----

{0: 28.014387057129575, 1: 10.177152003449415, 2: 12.382097749376918}
1
=====
Afstand van bronindex 524 tot...
Centrumindex 0:
31 - 15.992481203007529 = 15.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022

```

```

-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----

Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 525 tot...
Centrumindex 0:
    40 - 15.992481203007529 = 24.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415
-----

Centrumindex 1:
    40 - 54.156682027649765 = -14.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----

Centrumindex 2:
    40 - 31.63235294117647 = 8.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----

{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 526 tot...
Centrumindex 0:
    50 - 15.992481203007529 = 34.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1156.896107750579
Euclidische afstand: 34.01317550230468
-----

Centrumindex 1:
    50 - 54.156682027649765 = -4.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 17.69423856951726
Euclidische afstand: 4.206452016785317
-----
Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 337.7281093810073
Euclidische afstand: 18.377380373192675
-----
{0: 34.01317550230468, 1: 4.206452016785317, 2: 18.377380373192675}
1
=====
Afstand van bronindex 527 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 528 tot...
Centrumindex 0:
    39 - 15.992481203007529 = 23.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835
-----
Centrumindex 1:
    39 - 54.156682027649765 = -15.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----
Centrumindex 2:

```



```

39 - 31.63235294117647 = 7.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----
{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 529 tot...
Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
23 - 54.156682027649765 = -31.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
23 - 31.63235294117647 = -8.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 530 tot...
Centrumindex 0:
2 - 15.992481203007529 = -13.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.17430323930154
Euclidische afstand: 14.006223732302063
-----
Centrumindex 1:
2 - 54.156682027649765 = -52.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2720.7357132238944
Euclidische afstand: 52.16067209329165
-----
Centrumindex 2:
2 - 31.63235294117647 = -29.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 878.4339917339486
Euclidische afstand: 29.638387131116776

```

```

-----
{0: 14.006223732302063, 1: 52.16067209329165, 2: 29.638387131116776}
0
=====
Afstand van bronindex 531 tot...
  Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 841.5803182768947
  Euclidische afstand: 29.010003762097217
-----
  Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 83.97073626536975
  Euclidische afstand: 9.16355478323613
-----
  Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 178.85556036139945
  Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 532 tot...
  Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1.1592656453162782
  Euclidische afstand: 1.0766919918510949
-----
  Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1380.7449298137565
  Euclidische afstand: 37.158376307553546
-----
  Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 214.26732506728183
  Euclidische afstand: 14.637872969365523
-----
{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====

```

```

Afstand van bronindex 533 tot...
  Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 841.8209197806541
  Euclidische afstand: 29.0141503370451
-----
  Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 84.2610588460149
  Euclidische afstand: 9.179382269304122
-----
  Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 179.05163879277202
  Euclidische afstand: 13.381017853391125
-----
{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 534 tot...
  Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 196.35475436712053
  Euclidische afstand: 14.012664071015209
-----
  Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 583.6711970948627
  Euclidische afstand: 24.159288008856194
-----
  Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 2.8261485966935807
  Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 535 tot...
  Centrumindex 0:
    7 - 15.992481203007529 = -8.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 81.24949120922625
Euclidische afstand: 9.013849965981587

Centrumindex 1:

7 - 54.156682027649765 = -47.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 2224.168892947397
Euclidische afstand: 47.161095120314975

Centrumindex 2:

7 - 31.63235294117647 = -24.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 607.1104623221838
Euclidische afstand: 24.639611651204728

{0: 9.013849965981587, 1: 47.161095120314975, 2: 24.639611651204728}
0

=====

Afstand van bronindex 536 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1

=====

Afstand van bronindex 537 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228

Centrumindex 1:

```

30 - 54.156682027649765 = -24.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509
-----

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914
-----

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2
=====
Afstand van bronindex 538 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----

Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----

Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 539 tot...
Centrumindex 0:
22 - 15.992481203007529 = 6.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----

Centrumindex 1:
22 - 54.156682027649765 = -32.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611

```

```

-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----
{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 540 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----
{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 541 tot...
Centrumindex 0:
    9 - 15.992481203007529 = -6.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.03896489343674
Euclidische afstand: 7.002782653591124
-----
Centrumindex 1:
    9 - 54.156682027649765 = -45.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2039.2518422561527
Euclidische afstand: 45.158076157606104
-----
Centrumindex 2:
    9 - 31.63235294117647 = -22.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 512.3849721261054
Euclidische afstand: 22.635922162043794
-----
{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====
Afstand van bronindex 542 tot...
Centrumindex 0:
    11 - 15.992481203007529 = -4.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.069040081406623
Euclidische afstand: 5.00689924817812
-----
Centrumindex 1:
    11 - 54.156682027649765 = -43.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1862.6251141455537
Euclidische afstand: 43.15814076330853
-----
Centrumindex 2:
    11 - 31.63235294117647 = -20.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 425.8555603613995
Euclidische afstand: 20.636268082223577
-----
{0: 5.00689924817812, 1: 43.15814076330853, 2: 20.636268082223577}
0
=====
Afstand van bronindex 543 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----
Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191
-----
{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}

```

2

```
=====
Afstand van bronindex 544 tot...
  Centrumindex 0:
    50 - 15.992481203007529 = 34.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1156.6555062468194
  Euclidische afstand: 34.009638431580235
-----
  Centrumindex 1:
    50 - 54.156682027649765 = -4.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 17.4039159888721
  Euclidische afstand: 4.171800089754074
-----
  Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 337.53203094963476
  Euclidische afstand: 18.372044822219294
-----
{0: 34.009638431580235, 1: 4.171800089754074, 2: 18.372044822219294}
1
```

```
=====
Afstand van bronindex 545 tot...
  Centrumindex 0:
    64 - 15.992481203007529 = 48.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 2304.8660325626083
  Euclidische afstand: 48.00902032496194
-----
  Centrumindex 1:
    64 - 54.156682027649765 = 9.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 97.01681921467868
  Euclidische afstand: 9.849711631041727
-----
  Centrumindex 2:
    64 - 31.63235294117647 = 32.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 1047.8261485966937
  Euclidische afstand: 32.37014285721788
-----
{0: 48.00902032496194, 1: 9.849711631041727, 2: 32.37014285721788}
1
```

```
=====
Afstand van bronindex 546 tot...
  Centrumindex 0:
```



```

19 - 15.992481203007529 = 3.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----

Centrumindex 1:
19 - 54.156682027649765 = -35.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----

Centrumindex 2:
19 - 31.63235294117647 = -12.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----

{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 547 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----

Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----

Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 548 tot...
Centrumindex 0:
33 - 15.992481203007529 = 17.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297

```

```

-----
Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755
-----

Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717
-----

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 549 tot...
Centrumindex 0:
    8 - 15.992481203007529 = -7.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.26452880321119
Euclidische afstand: 8.016516001556486
-----

Centrumindex 1:
    8 - 54.156682027649765 = -46.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2130.8555288920975
Euclidische afstand: 46.16119072220838
-----

Centrumindex 2:
    8 - 31.63235294117647 = -23.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 558.8457564398309
Euclidische afstand: 23.639918706286426
-----

{0: 8.016516001556486, 1: 46.16119072220838, 2: 23.639918706286426}
0
=====
Afstand van bronindex 550 tot...
Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3998671490756767
Euclidische afstand: 1.183159815526067
-----

Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 1381.0352523944018
Euclidische afstand: 37.16228265855586

Centrumindex 2:

17 - 31.63235294117647 = -14.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 214.4634034986544

Euclidische afstand: 14.644569078626192

{0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
0

=====

Afstand van bronindex 551 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 121.30964158516569

Euclidische afstand: 11.014065624698524

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 737.6112892607613

Euclidische afstand: 27.159000152081468

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 21.620266243752408

Euclidische afstand: 4.649759804952553

{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2

=====

Afstand van bronindex 552 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

```

                45 - 31.63235294117647 = 13.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 553 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----
{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 554 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194

```

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====

Afstand van bronindex 555 tot...

Centrumindex 0:

62 - 15.992481203007529 = 46.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2116.835957374639

Euclidische afstand: 46.009085595941144

Centrumindex 1:

62 - 54.156682027649765 = 7.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 61.64354732527774

Euclidische afstand: 7.85134047951544

Centrumindex 2:

62 - 31.63235294117647 = 30.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 922.3555603613994

Euclidische afstand: 30.370307215459633

{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====

Afstand van bronindex 556 tot...

Centrumindex 0:

48 - 15.992481203007529 = 32.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1024.866032562609

Euclidische afstand: 32.01352889892973

Centrumindex 1:

48 - 54.156682027649765 = -6.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 38.32096668011632

Euclidische afstand: 6.190393095766724

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 268.2575211457132

Euclidische afstand: 16.37856895903037

{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}
1
=====

Afstand van bronindex 557 tot...

Centrumindex 0:

$$45 - 15.992481203007529 = 29.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

$$45 - 54.156682027649765 = -9.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

$$45 - 31.63235294117647 = 13.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 178.85556036139945

Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

Afstand van bronindex 558 tot...

Centrumindex 0:

$$39 - 15.992481203007529 = 23.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 529.7306942167444

Euclidische afstand: 23.01587917540289

Centrumindex 1:

$$39 - 54.156682027649765 = -15.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 230.1412431778121

Euclidische afstand: 15.170406823081974

Centrumindex 2:

$$39 - 31.63235294117647 = 7.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 54.63987408688965

Euclidische afstand: 7.391878928045943

{0: 23.01587917540289, 1: 15.170406823081974, 2: 7.391878928045943}

2

Afstand van bronindex 559 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

2

=====

Afstand van bronindex 560 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 178.85556036139945

Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

=====

Afstand van bronindex 561 tot...

Centrumindex 0:

40 - 15.992481203007529 = 24.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 576.5051303069699

Euclidische afstand: 24.01052124188415

Centrumindex 1:

```

40 - 54.156682027649765 = -14.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----
Centrumindex 2:
40 - 31.63235294117647 = 8.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----
{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 562 tot...
Centrumindex 0:
28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 563 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

```



```

-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 564 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 565 tot...
Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----
Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 566 tot...
  Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 9.189340833286163
  Euclidische afstand: 3.031392556777522
-----
  Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1236.1182017031574
  Euclidische afstand: 35.15847268729342
-----
  Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 159.73791330257595
  Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 567 tot...
  Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 169.3397167731356
  Euclidische afstand: 13.013059470129829
-----
  Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 632.9845611501622
  Euclidische afstand: 25.15918442935228
-----
  Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 7.090854479046523
  Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}

```

2

=====

Afstand van bronindex 568 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 178.85556036139945

Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

=====

Afstand van bronindex 569 tot...

Centrumindex 0:

32 - 15.992481203007529 = 16.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 256.6254310588498

Euclidische afstand: 16.01953279777066

Centrumindex 1:

32 - 54.156682027649765 = -22.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 491.3347915649088

Euclidische afstand: 22.166072984741994

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 0.49281526336024584

Euclidische afstand: 0.7020080222905191

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}

2

=====

Afstand van bronindex 570 tot...

Centrumindex 0:

```

        62 - 15.992481203007529 = 46.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 2117.0765588783984
Euclidische afstand: 46.011700238943554
-----

Centrumindex 1:
        62 - 54.156682027649765 = 7.843317972350235
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 61.9338699059229
Euclidische afstand: 7.869807488491881
-----

Centrumindex 2:
        62 - 31.63235294117647 = 30.36764705882353
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 922.551638792772
Euclidische afstand: 30.37353517114483
-----

{0: 46.011700238943554, 1: 7.869807488491881, 2: 30.37353517114483}
1
=====
Afstand van bronindex 571 tot...
Centrumindex 0:
        53 - 15.992481203007529 = 37.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1369.9412205325336
Euclidische afstand: 37.012717010948194
-----

Centrumindex 1:
        53 - 54.156682027649765 = -1.1566820276497651
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1.7541464036186694
Euclidische afstand: 1.324441921572505
-----

Centrumindex 2:
        53 - 31.63235294117647 = 21.36764705882353
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 456.93399173394846
Euclidische afstand: 21.376014402454647
-----

{0: 37.012717010948194, 1: 1.324441921572505, 2: 21.376014402454647}
1
=====
Afstand van bronindex 572 tot...
Centrumindex 0:
        36 - 15.992481203007529 = 20.00751879699247
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477

```

```

-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----

Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 573 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----

Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----

Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 574 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----

Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----
{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 575 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 576 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 324.6555062468197
Euclidische afstand: 18.01819930644624
-----
Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 406.70806345430975
Euclidische afstand: 20.16700432524151
-----
Centrumindex 2:

```

```

34 - 31.63235294117647 = 2.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 5.963403498654362
Euclidische afstand: 2.4420080873441763
-----
{0: 18.01819930644624, 1: 20.16700432524151, 2: 2.4420080873441763}
2
=====
Afstand van bronindex 577 tot...
Centrumindex 0:
39 - 15.992481203007529 = 23.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 529.7306942167444
Euclidische afstand: 23.01587917540289
-----
Centrumindex 1:
39 - 54.156682027649765 = -15.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 230.1412431778121
Euclidische afstand: 15.170406823081974
-----
Centrumindex 2:
39 - 31.63235294117647 = 7.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 54.63987408688965
Euclidische afstand: 7.391878928045943
-----
{0: 23.01587917540289, 1: 15.170406823081974, 2: 7.391878928045943}
2
=====
Afstand van bronindex 578 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

```

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1

=====

Afstand van bronindex 579 tot...

Centrumindex 0:

32 - 15.992481203007529 = 16.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 256.6254310588498

Euclidische afstand: 16.01953279777066

Centrumindex 1:

32 - 54.156682027649765 = -22.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 491.3347915649088

Euclidische afstand: 22.166072984741994

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 0.49281526336024584

Euclidische afstand: 0.7020080222905191

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2

=====

Afstand van bronindex 580 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 81.52016790095522

Euclidische afstand: 9.028851970264837

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 850.5283399520055

Euclidische afstand: 29.1638190220692

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 44.345756439830836

Euclidische afstand: 6.659260952976001

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}
2

=====

Afstand van bronindex 581 tot...

Centrumindex 0:

$$39 - 15.992481203007529 = 23.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 529.7306942167444

Euclidische afstand: 23.01587917540289

Centrumindex 1:

$$39 - 54.156682027649765 = -15.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 230.1412431778121

Euclidische afstand: 15.170406823081974

Centrumindex 2:

$$39 - 31.63235294117647 = 7.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 54.63987408688965

Euclidische afstand: 7.391878928045943

{0: 23.01587917540289, 1: 15.170406823081974, 2: 7.391878928045943}

2

=====

Afstand van bronindex 582 tot...

Centrumindex 0:

$$54 - 15.992481203007529 = 38.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 1444.715656622759

Euclidische afstand: 38.009415368073725

Centrumindex 1:

$$54 - 54.156682027649765 = -0.15668202764976513$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 0.15045976767397765

Euclidische afstand: 0.38789143800034775

Centrumindex 2:

$$54 - 31.63235294117647 = 22.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 500.473207420223

Euclidische afstand: 22.371258512212115

{0: 38.009415368073725, 1: 0.38789143800034775, 2: 22.371258512212115}

1

=====

Afstand van bronindex 583 tot...

Centrumindex 0:

$$36 - 15.992481203007529 = 20.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2

=====

Afstand van bronindex 584 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1

=====

Afstand van bronindex 585 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.414904743060619
Euclidische afstand: 2.1011674714454864

Centrumindex 1:

```

18 - 54.156682027649765 = -36.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----

Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----

{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 586 tot...
Centrumindex 0:
47 - 15.992481203007529 = 31.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 961.6103934648645
Euclidische afstand: 31.00984349307272
-----

Centrumindex 1:
47 - 54.156682027649765 = -7.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 51.34400815477069
Euclidische afstand: 7.165473337803351
-----

Centrumindex 2:
47 - 31.63235294117647 = 15.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 236.32614859669357
Euclidische afstand: 15.372903063400015
-----

{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 587 tot...
Centrumindex 0:
60 - 15.992481203007529 = 44.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1937.0464836904282
Euclidische afstand: 44.01189025354885
-----

Centrumindex 1:
60 - 54.156682027649765 = 5.843317972350235
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 34.56059801652196
Euclidische afstand: 5.878826244797677

```

```

-----
Centrumindex 2:
    60 - 31.63235294117647 = 28.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 805.0810505574779
Euclidische afstand: 28.3739502106682
-----
{0: 44.01189025354885, 1: 5.878826244797677, 2: 28.3739502106682}
1
=====
Afstand van bronindex 588 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----
{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 589 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 590 tot...
Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 361.42994233704525
Euclidische afstand: 19.01131090527545
-----
Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 367.1043768183651
Euclidische afstand: 19.15996807978461
-----
Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 11.50261918492887
Euclidische afstand: 3.391551147326083
-----
{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2
=====
Afstand van bronindex 591 tot...
Centrumindex 0:
    52 - 15.992481203007529 = 36.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1296.9261829385487
Euclidische afstand: 36.01286135450152
-----
Centrumindex 1:
    52 - 54.156682027649765 = -2.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 5.0675104589182
Euclidische afstand: 2.2511131599540257
-----
Centrumindex 2:
    52 - 31.63235294117647 = 20.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 415.19869761630144
Euclidische afstand: 20.376425045044126
-----
{0: 36.01286135450152, 1: 2.2511131599540257, 2: 20.376425045044126}

```

1

=====

Afstand van bronindex 592 tot...

Centrumindex 0:

$$47 - 15.992481203007529 = 31.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 961.6103934648645

Euclidische afstand: 31.00984349307272

Centrumindex 1:

$$47 - 54.156682027649765 = -7.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 51.34400815477069

Euclidische afstand: 7.165473337803351

Centrumindex 2:

$$47 - 31.63235294117647 = 15.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 236.32614859669357

Euclidische afstand: 15.372903063400015

{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}

1

=====

Afstand van bronindex 593 tot...

Centrumindex 0:

$$45 - 15.992481203007529 = 29.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 841.5803182768947

Euclidische afstand: 29.010003762097217

Centrumindex 1:

$$45 - 54.156682027649765 = -9.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 83.97073626536975

Euclidische afstand: 9.16355478323613

Centrumindex 2:

$$45 - 31.63235294117647 = 13.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 178.85556036139945

Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

1

=====

Afstand van bronindex 594 tot...

Centrumindex 0:

$37 - 15.992481203007529 = 21.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 441.46001752501513
 Euclidische afstand: 21.01094994342272

Centrumindex 1:
 $37 - 54.156682027649765 = -17.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 294.47764870776604
 Euclidische afstand: 17.16035106598248

Centrumindex 2:
 $37 - 31.63235294117647 = 5.367647058823529$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 28.973207420222987
 Euclidische afstand: 5.382676603718915

{0: 21.01094994342272, 1: 17.16035106598248, 2: 5.382676603718915}

2

=====

Afstand van bronindex 595 tot...

Centrumindex 0:
 $36 - 15.992481203007529 = 20.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 400.4449799310302
 Euclidische afstand: 20.011121406133896

Centrumindex 1:
 $36 - 54.156682027649765 = -18.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 329.79101276306557
 Euclidische afstand: 18.160149029208586

Centrumindex 2:
 $36 - 31.63235294117647 = 4.367647058823529$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 19.23791330257593
 Euclidische afstand: 4.386104570410506

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

2

=====

Afstand van bronindex 596 tot...

Centrumindex 0:
 $45 - 15.992481203007529 = 29.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 841.8209197806541
 Euclidische afstand: 29.0141503370451

```

-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----

Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 597 tot...
Centrumindex 0:
    49 - 15.992481203007529 = 33.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1089.6404686528344
Euclidische afstand: 33.009702644114114
-----

Centrumindex 1:
    49 - 54.156682027649765 = -5.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 26.71728004417163
Euclidische afstand: 5.1688760910058225
-----

Centrumindex 2:
    49 - 31.63235294117647 = 17.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 301.7967368319877
Euclidische afstand: 17.37229797211606
-----

{0: 33.009702644114114, 1: 5.1688760910058225, 2: 17.37229797211606}
1
=====
Afstand van bronindex 598 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----

Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```


Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1

Afstand van bronindex 599 tot...

Centrumindex 0:
49 - 15.992481203007529 = 33.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1089.881070156594
Euclidische afstand: 33.01334684876094

Centrumindex 1:
49 - 54.156682027649765 = -5.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 27.00760262481679
Euclidische afstand: 5.1968839341298345

Centrumindex 2:
49 - 31.63235294117647 = 17.36764705882353
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 301.9928152633602
Euclidische afstand: 17.37794047818556

{0: 33.01334684876094, 1: 5.1968839341298345, 2: 17.37794047818556}
1

Afstand van bronindex 600 tot...

Centrumindex 0:
24 - 15.992481203007529 = 8.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337

Centrumindex 1:
24 - 54.156682027649765 = -30.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762

Centrumindex 2:

```

24 - 31.63235294117647 = -7.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----
{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 601 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 602 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113

```

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====

Afstand van bronindex 603 tot...

Centrumindex 0:

44 - 15.992481203007529 = 28.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 784.5652806829097

Euclidische afstand: 28.010092479013878

Centrumindex 1:

44 - 54.156682027649765 = -10.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 103.28410032066928

Euclidische afstand: 10.1628785450122

Centrumindex 2:

44 - 31.63235294117647 = 12.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 153.12026624375238

Euclidische afstand: 12.37417739664954

{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}
1
=====

Afstand van bronindex 604 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 361.6705438408046

Euclidische afstand: 19.017637704005317

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 367.3946993990102

Euclidische afstand: 19.16754286284526

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 11.69869761630142

Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}
2
=====

```

Afstand van bronindex 605 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 400.4449799310302
  Euclidische afstand: 20.011121406133896
-----
  Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 329.79101276306557
  Euclidische afstand: 18.160149029208586
-----
  Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 19.23791330257593
  Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 606 tot...
  Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 196.35475436712053
  Euclidische afstand: 14.012664071015209
-----
  Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 583.6711970948627
  Euclidische afstand: 24.159288008856194
-----
  Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 2.8261485966935807
  Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 607 tot...
  Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 737.9016118414064

Euclidische afstand: 27.16434449496999

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 21.816344675124956

Euclidische afstand: 4.67079700641389

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}

2

=====

Afstand van bronindex 608 tot...

Centrumindex 0:

22 - 15.992481203007529 = 6.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 36.47505511900039

Euclidische afstand: 6.039458180913283

Centrumindex 1:

22 - 54.156682027649765 = -32.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1034.4684321179043

Euclidische afstand: 32.16315332982611

Centrumindex 2:

22 - 31.63235294117647 = -9.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 93.13987408688966

Euclidische afstand: 9.650900169771194

{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}

0

=====

Afstand van bronindex 609 tot...

Centrumindex 0:

40 - 15.992481203007529 = 24.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 576.7457318107294

Euclidische afstand: 24.015531054105995

Centrumindex 1:

```

40 - 54.156682027649765 = -14.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 200.82787912251257
Euclidische afstand: 14.171375343364263
-----

Centrumindex 2:
40 - 31.63235294117647 = 8.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 70.3751682045367
Euclidische afstand: 8.38899089310131
-----

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}
2
=====
Afstand van bronindex 610 tot...
Centrumindex 0:
39 - 15.992481203007529 = 23.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835
-----

Centrumindex 1:
39 - 54.156682027649765 = -15.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----

Centrumindex 2:
39 - 31.63235294117647 = 7.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----

{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 611 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----

Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613

```

```

-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 612 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----
{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 613 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 614 tot...
  Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 361.42994233704525
  Euclidische afstand: 19.01131090527545
-----
  Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 367.1043768183651
  Euclidische afstand: 19.15996807978461
-----
  Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 11.50261918492887
  Euclidische afstand: 3.391551147326083
-----
{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2
=====
Afstand van bronindex 615 tot...
  Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 64.50513030697027
  Euclidische afstand: 8.031508594714337
-----
  Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 909.841704007305
  Euclidische afstand: 30.163582413355762
-----
  Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 58.61046232218378
  Euclidische afstand: 7.655747012681635
-----
{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}

```


2

=====

Afstand van bronindex 616 tot...

Centrumindex 0:

$$34 - 15.992481203007529 = 18.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 324.41490474306033

Euclidische afstand: 18.011521444427185

Centrumindex 1:

$$34 - 54.156682027649765 = -20.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 406.4177408736646

Euclidische afstand: 20.159805080249775

Centrumindex 2:

$$34 - 31.63235294117647 = 2.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 5.767325067281813

Euclidische afstand: 2.401525570815729

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}

2

=====

Afstand van bronindex 617 tot...

Centrumindex 0:

$$26 - 15.992481203007529 = 10.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 100.29460399118075

Euclidische afstand: 10.014719366571425

Centrumindex 1:

$$26 - 54.156682027649765 = -28.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 792.9246533160608

Euclidische afstand: 28.15891782927854

Centrumindex 2:

$$26 - 31.63235294117647 = -5.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 31.88497212610535

Euclidische afstand: 5.646677972587542

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}

2

=====

Afstand van bronindex 618 tot...

Centrumindex 0:

```

        4 - 15.992481203007529 = -11.992481203007529
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.20437842727142
Euclidische afstand: 12.008512748349457
-----

Centrumindex 1:
        4 - 54.156682027649765 = -50.156682027649765
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2516.1089851132956
Euclidische afstand: 50.160831184434095
-----

Centrumindex 2:
        4 - 31.63235294117647 = -27.63235294117647
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 763.9045799692426
Euclidische afstand: 27.63882378049476
-----

{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 619 tot...
Centrumindex 0:
        26 - 15.992481203007529 = 10.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425
-----

Centrumindex 1:
        26 - 54.156682027649765 = -28.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854
-----

Centrumindex 2:
        26 - 31.63235294117647 = -5.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542
-----

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 620 tot...
Centrumindex 0:
        27 - 15.992481203007529 = 11.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 121.30964158516569
Euclidische afstand: 11.014065624698524

```

```

-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 737.6112892607613
Euclidische afstand: 27.159000152081468
-----

Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 21.620266243752408
Euclidische afstand: 4.649759804952553
-----

{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2
=====
Afstand van bronindex 621 tot...
Centrumindex 0:
    42 - 15.992481203007529 = 26.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597
-----

Centrumindex 1:
    42 - 54.156682027649765 = -12.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654
-----

Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----

{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 622 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 16.444979931030506
Euclidische afstand: 4.05524104475067
-----

Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 1167.0951602285033
Euclidische afstand: 34.162774480836646

Centrumindex 2:

20 - 31.63235294117647 = -11.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 135.66928585159556

Euclidische afstand: 11.64771590706073

{0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}
0

=====

Afstand van bronindex 623 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 113.20850153787006

Euclidische afstand: 10.639948380413792

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0

=====

Afstand van bronindex 624 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

```

                21 - 31.63235294117647 = -10.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----
{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 625 tot...
Centrumindex 0:
    61 - 15.992481203007529 = 45.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736
-----
Centrumindex 1:
    61 - 54.156682027649765 = 6.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332
-----
Centrumindex 2:
    61 - 31.63235294117647 = 29.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319
-----
{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1
=====
Afstand van bronindex 626 tot...
Centrumindex 0:
    57 - 15.992481203007529 = 41.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1681.760769404714
Euclidische afstand: 41.00927662620634
-----
Centrumindex 1:
    57 - 54.156682027649765 = 2.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 8.210367601775387
Euclidische afstand: 2.865373902612953
-----
Centrumindex 2:
    57 - 31.63235294117647 = 25.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 643.6790897731642
Euclidische afstand: 25.370831475794485

```

{0: 41.00927662620634, 1: 2.865373902612953, 2: 25.370831475794485}

1

=====

Afstand van bronindex 627 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 25.46001752501545

Euclidische afstand: 5.0457920612145175

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1099.7817961732037

Euclidische afstand: 33.162958193942885

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 113.4045799692426

Euclidische afstand: 10.649158650768737

{0: 5.0457920612145175, 1: 33.162958193942885, 2: 10.649158650768737}

0

=====

Afstand van bronindex 628 tot...

Centrumindex 0:

26 - 15.992481203007529 = 10.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 100.29460399118075

Euclidische afstand: 10.014719366571425

Centrumindex 1:

26 - 54.156682027649765 = -28.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 792.9246533160608

Euclidische afstand: 28.15891782927854

Centrumindex 2:

26 - 31.63235294117647 = -5.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 31.88497212610535

Euclidische afstand: 5.646677972587542

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}

2

```

Afstand van bronindex 629 tot...
  Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 841.5803182768947
  Euclidische afstand: 29.010003762097217
-----
  Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 83.97073626536975
  Euclidische afstand: 9.16355478323613
-----
  Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 178.85556036139945
  Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 630 tot...
  Centrumindex 0:
    80 - 15.992481203007529 = 64.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 4097.347235570127
  Euclidische afstand: 64.01052441255365
-----
  Centrumindex 1:
    80 - 54.156682027649765 = 25.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 668.2933169105313
  Euclidische afstand: 25.851369729871788
-----
  Centrumindex 2:
    80 - 31.63235294117647 = 48.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 2339.786932910419
  Euclidische afstand: 48.37134412966441
-----
{0: 64.01052441255365, 1: 25.851369729871788, 2: 48.37134412966441}
1
=====
Afstand van bronindex 631 tot...
  Centrumindex 0:
    51 - 15.992481203007529 = 35.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 1225.6705438408044
Euclidische afstand: 35.009577887212586

Centrumindex 1:
51 - 54.156682027649765 = -3.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 10.090551933572568
Euclidische afstand: 3.1765629119494183

Centrumindex 2:
51 - 31.63235294117647 = 19.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 375.26732506728183
Euclidische afstand: 19.371817804926874

{0: 35.009577887212586, 1: 3.1765629119494183, 2: 19.371817804926874}
1

=====

Afstand van bronindex 632 tot...

Centrumindex 0:
32 - 15.992481203007529 = 16.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066

Centrumindex 1:
32 - 54.156682027649765 = -22.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994

Centrumindex 2:
32 - 31.63235294117647 = 0.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.49281526336024584
Euclidische afstand: 0.7020080222905191

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2

=====

Afstand van bronindex 633 tot...

Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217

Centrumindex 1:


```

                45 - 54.156682027649765 = -9.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----

Centrumindex 2:
                45 - 31.63235294117647 = 13.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----

{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}
1
=====
Afstand van bronindex 634 tot...
Centrumindex 0:
                9 - 15.992481203007529 = -6.992481203007529
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.03896489343674
Euclidische afstand: 7.002782653591124
-----

Centrumindex 1:
                9 - 54.156682027649765 = -45.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2039.2518422561527
Euclidische afstand: 45.158076157606104
-----

Centrumindex 2:
                9 - 31.63235294117647 = -22.63235294117647
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 512.3849721261054
Euclidische afstand: 22.635922162043794
-----

{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====
Afstand van bronindex 635 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----

Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915

```

```

-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----
{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 636 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----
Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----
Centrumindex 2:
    32 - 31.63235294117647 = 0.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252
-----
{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====
Afstand van bronindex 637 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 638 tot...
Centrumindex 0:
    41 - 15.992481203007529 = 25.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 625.5201679009549
Euclidische afstand: 25.01040119432223
-----
Centrumindex 1:
    41 - 54.156682027649765 = -13.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 173.22419248656786
Euclidische afstand: 13.161466198207853
-----
Centrumindex 2:
    41 - 31.63235294117647 = 9.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 87.91438389081122
Euclidische afstand: 9.376267055220389
-----
{0: 25.01040119432223, 1: 13.161466198207853, 2: 9.376267055220389}
2
=====
Afstand van bronindex 639 tot...
Centrumindex 0:
    45 - 15.992481203007529 = 29.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 841.5803182768947
Euclidische afstand: 29.010003762097217
-----
Centrumindex 1:
    45 - 54.156682027649765 = -9.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 83.97073626536975
Euclidische afstand: 9.16355478323613
-----
Centrumindex 2:
    45 - 31.63235294117647 = 13.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 178.85556036139945
Euclidische afstand: 13.373689108148113
-----
{0: 29.010003762097217, 1: 9.16355478323613, 2: 13.373689108148113}

```

1

=====

Afstand van bronindex 640 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

20 - 54.156682027649765 = -34.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

20 - 31.63235294117647 = -11.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 135.473207420223

Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}

0

=====

Afstand van bronindex 641 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 64.50513030697027

Euclidische afstand: 8.031508594714337

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 909.841704007305

Euclidische afstand: 30.163582413355762

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 58.61046232218378

Euclidische afstand: 7.655747012681635

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}

2

=====

Afstand van bronindex 642 tot...

Centrumindex 0:

```

                2 - 15.992481203007529 = -13.992481203007529
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422
-----
Centrumindex 1:
                2 - 54.156682027649765 = -52.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082
-----
Centrumindex 2:
                2 - 31.63235294117647 = -29.63235294117647
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339
-----
{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0
=====
Afstand van bronindex 643 tot...
Centrumindex 0:
                45 - 15.992481203007529 = 29.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----
Centrumindex 1:
                45 - 54.156682027649765 = -9.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----
Centrumindex 2:
                45 - 31.63235294117647 = 13.367647058823529
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----
{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 644 tot...
Centrumindex 0:
                75 - 15.992481203007529 = 59.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 3482.2720476002023
Euclidische afstand: 59.01077907975968

```

```

-----
Centrumindex 1:
    75 - 54.156682027649765 = 20.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 434.860137187029
Euclidische afstand: 20.853300390754193
-----

Centrumindex 2:
    75 - 31.63235294117647 = 43.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 1881.1104623221836
Euclidische afstand: 43.3717703388066
-----

{0: 59.01077907975968, 1: 20.853300390754193, 2: 43.3717703388066}
1
=====
Afstand van bronindex 645 tot...
Centrumindex 0:
    48 - 15.992481203007529 = 32.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1024.866032562609
Euclidische afstand: 32.01352889892973
-----

Centrumindex 1:
    48 - 54.156682027649765 = -6.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 38.32096668011632
Euclidische afstand: 6.190393095766724
-----

Centrumindex 2:
    48 - 31.63235294117647 = 16.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 268.2575211457132
Euclidische afstand: 16.37856895903037
-----

{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}
1
=====
Afstand van bronindex 646 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----

Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 647 tot...
Centrumindex 0:
    56 - 15.992481203007529 = 40.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1600.9863333144885
Euclidische afstand: 40.01232726691224
-----
Centrumindex 1:
    56 - 54.156682027649765 = 1.8433179723502349
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 3.8140542377200783
Euclidische afstand: 1.95296037791863
-----
Centrumindex 2:
    56 - 31.63235294117647 = 24.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 594.1398740868897
Euclidische afstand: 24.37498459664928
-----
{0: 40.01232726691224, 1: 1.95296037791863, 2: 24.37498459664928}
1
=====
Afstand van bronindex 648 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:

```

```

                23 - 31.63235294117647 = -8.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 649 tot...
Centrumindex 0:
                23 - 15.992481203007529 = 7.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.49009271298533
Euclidische afstand: 7.034919524272138
-----
Centrumindex 1:
                23 - 54.156682027649765 = -31.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 971.1550680626045
Euclidische afstand: 31.16336098790701
-----
Centrumindex 2:
                23 - 31.63235294117647 = -8.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 74.87516820453672
Euclidische afstand: 8.653043869329261
-----
{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}
0
=====
Afstand van bronindex 650 tot...
Centrumindex 0:
                23 - 15.992481203007529 = 7.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
                23 - 54.156682027649765 = -31.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
                23 - 31.63235294117647 = -8.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071

```

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0

=====

Afstand van bronindex 651 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.414904743060619

Euclidische afstand: 2.1011674714454864

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1307.7218883391024

Euclidische afstand: 36.16243753315175

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 186.19869761630144

Euclidische afstand: 13.645464360596215

{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0

=====

Afstand van bronindex 652 tot...

Centrumindex 0:

21 - 15.992481203007529 = 5.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 25.21941602125605

Euclidische afstand: 5.021893668852025

Centrumindex 1:

21 - 54.156682027649765 = -33.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1099.4914735925583

Euclidische afstand: 33.15858069327694

Centrumindex 2:

21 - 31.63235294117647 = -10.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 113.20850153787006

Euclidische afstand: 10.639948380413792

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0

=====

Afstand van bronindex 653 tot...

Centrumindex 0:

$$23 - 15.992481203007529 = 7.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 49.49009271298533

Euclidische afstand: 7.034919524272138

Centrumindex 1:

$$23 - 54.156682027649765 = -31.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 971.1550680626045

Euclidische afstand: 31.16336098790701

Centrumindex 2:

$$23 - 31.63235294117647 = -8.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 74.87516820453672

Euclidische afstand: 8.653043869329261

{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}

0

=====

Afstand van bronindex 654 tot...

Centrumindex 0:

$$18 - 15.992481203007529 = 2.0075187969924713$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 4.174303239301221

Euclidische afstand: 2.0431111666527646

Centrumindex 1:

$$18 - 54.156682027649765 = -36.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1307.431565758457

Euclidische afstand: 36.15842316471305

Centrumindex 2:

$$18 - 31.63235294117647 = -13.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 186.00261918492888

Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}

0

=====

Afstand van bronindex 655 tot...

Centrumindex 0:

$$24 - 15.992481203007529 = 8.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 58.41438389081123

Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}

2

=====

Afstand van bronindex 656 tot...

Centrumindex 0:

23 - 15.992481203007529 = 7.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 49.24949120922594

Euclidische afstand: 7.017798173873764

Centrumindex 1:

23 - 54.156682027649765 = -31.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 970.8647454819594

Euclidische afstand: 31.158702564162702

Centrumindex 2:

23 - 31.63235294117647 = -8.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 74.67908977316418

Euclidische afstand: 8.641706415585071

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}

0

=====

Afstand van bronindex 657 tot...

Centrumindex 0:

32 - 15.992481203007529 = 16.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 256.38482955509045

Euclidische afstand: 16.01202140752661

Centrumindex 1:

```

32 - 54.156682027649765 = -22.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----

Centrumindex 2:
32 - 31.63235294117647 = 0.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252
-----

{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====
Afstand van bronindex 658 tot...
Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----

Centrumindex 1:
23 - 54.156682027649765 = -31.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----

Centrumindex 2:
23 - 31.63235294117647 = -8.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 659 tot...
Centrumindex 0:
58 - 15.992481203007529 = 42.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1764.775806998699
Euclidische afstand: 42.009234782351115
-----

Centrumindex 1:
58 - 54.156682027649765 = 3.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 14.897003546475856
Euclidische afstand: 3.8596636571696057

```

```

-----
Centrumindex 2:
    58 - 31.63235294117647 = 26.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 695.4143838908112
Euclidische afstand: 26.370710720244368
-----
{0: 42.009234782351115, 1: 3.8596636571696057, 2: 26.370710720244368}
1
=====
Afstand van bronindex 660 tot...
Centrumindex 0:
    50 - 15.992481203007529 = 34.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1156.896107750579
Euclidische afstand: 34.01317550230468
-----
Centrumindex 1:
    50 - 54.156682027649765 = -4.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 17.69423856951726
Euclidische afstand: 4.206452016785317
-----
Centrumindex 2:
    50 - 31.63235294117647 = 18.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 337.7281093810073
Euclidische afstand: 18.377380373192675
-----
{0: 34.01317550230468, 1: 4.206452016785317, 2: 18.377380373192675}
1
=====
Afstand van bronindex 661 tot...
Centrumindex 0:
    40 - 15.992481203007529 = 24.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 576.5051303069699
Euclidische afstand: 24.01052124188415
-----
Centrumindex 1:
    40 - 54.156682027649765 = -14.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 200.5375565418674
Euclidische afstand: 14.161128364006428
-----
Centrumindex 2:
    40 - 31.63235294117647 = 8.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 70.17908977316416
Euclidische afstand: 8.377296089620097
-----
{0: 24.01052124188415, 1: 14.161128364006428, 2: 8.377296089620097}
2
=====
Afstand van bronindex 662 tot...
Centrumindex 0:
    47 - 15.992481203007529 = 31.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 961.6103934648645
Euclidische afstand: 31.00984349307272
-----
Centrumindex 1:
    47 - 54.156682027649765 = -7.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 51.34400815477069
Euclidische afstand: 7.165473337803351
-----
Centrumindex 2:
    47 - 31.63235294117647 = 15.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 236.32614859669357
Euclidische afstand: 15.372903063400015
-----
{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 663 tot...
Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----
Centrumindex 1:
    36 - 54.156682027649765 = -18.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----
Centrumindex 2:
    36 - 31.63235294117647 = 4.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----
{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}

```

2

=====

Afstand van bronindex 664 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 16.444979931030506

Euclidische afstand: 4.05524104475067

Centrumindex 1:

20 - 54.156682027649765 = -34.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1167.0951602285033

Euclidische afstand: 34.162774480836646

Centrumindex 2:

20 - 31.63235294117647 = -11.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 135.66928585159556

Euclidische afstand: 11.64771590706073

{0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}

0

=====

Afstand van bronindex 665 tot...

Centrumindex 0:

32 - 15.992481203007529 = 16.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 256.38482955509045

Euclidische afstand: 16.01202140752661

Centrumindex 1:

32 - 54.156682027649765 = -22.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 491.0444689842637

Euclidische afstand: 22.15952321202475

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.2967368319876966

Euclidische afstand: 0.5447355615229252

{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}

2

=====

Afstand van bronindex 666 tot...

Centrumindex 0:

```

                25 - 15.992481203007529 = 9.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----

Centrumindex 1:
                25 - 54.156682027649765 = -29.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----

Centrumindex 2:
                25 - 31.63235294117647 = -6.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 667 tot...
Centrumindex 0:
                23 - 15.992481203007529 = 7.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----

Centrumindex 1:
                23 - 54.156682027649765 = -31.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----

Centrumindex 2:
                23 - 31.63235294117647 = -8.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 668 tot...
Centrumindex 0:
                43 - 15.992481203007529 = 27.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 729.5502430889247
Euclidische afstand: 27.010187764784693

```



```

-----
Centrumindex 1:
    43 - 54.156682027649765 = -11.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 124.59746437596881
Euclidische afstand: 11.162323430897745
-----

Centrumindex 2:
    43 - 31.63235294117647 = 11.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 129.38497212610534
Euclidische afstand: 11.374751519312646
-----

{0: 27.010187764784693, 1: 11.162323430897745, 2: 11.374751519312646}
1
=====
Afstand van bronindex 669 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 49.49009271298533
Euclidische afstand: 7.034919524272138
-----

Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 971.1550680626045
Euclidische afstand: 31.16336098790701
-----

Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 74.87516820453672
Euclidische afstand: 8.653043869329261
-----

{0: 7.034919524272138, 1: 31.16336098790701, 2: 8.653043869329261}
0
=====
Afstand van bronindex 670 tot...
Centrumindex 0:
    40 - 15.992481203007529 = 24.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 576.7457318107294
Euclidische afstand: 24.015531054105995
-----

Centrumindex 1:
    40 - 54.156682027649765 = -14.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 200.82787912251257
Euclidische afstand: 14.171375343364263

Centrumindex 2:

40 - 31.63235294117647 = 8.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 70.3751682045367

Euclidische afstand: 8.38899089310131

{0: 24.015531054105995, 1: 14.171375343364263, 2: 8.38899089310131}
2

=====

Afstand van bronindex 671 tot...

Centrumindex 0:

31 - 15.992481203007529 = 15.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 225.36979196110548

Euclidische afstand: 15.012321338191022

Centrumindex 1:

31 - 54.156682027649765 = -23.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 536.3578330395632

Euclidische afstand: 23.159400532819564

Centrumindex 2:

31 - 31.63235294117647 = -0.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.5614427143406386

Euclidische afstand: 0.7492948113664198

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2

=====

Afstand van bronindex 672 tot...

Centrumindex 0:

70 - 15.992481203007529 = 54.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2916.956258126518

Euclidische afstand: 54.0088535161275

Centrumindex 1:

70 - 54.156682027649765 = 15.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 251.13663488288148

Euclidische afstand: 15.84729108973775

Centrumindex 2:

```

70 - 31.63235294117647 = 38.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1472.2379133025759
Euclidische afstand: 38.36975258328591
-----
{0: 54.0088535161275, 1: 15.84729108973775, 2: 38.36975258328591}
1
=====
Afstand van bronindex 673 tot...
Centrumindex 0:
31 - 15.992481203007529 = 15.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.61039346486487
Euclidische afstand: 15.020332668248892
-----
Centrumindex 1:
31 - 54.156682027649765 = -23.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 536.6481556202083
Euclidische afstand: 23.165667605752446
-----
Centrumindex 2:
31 - 31.63235294117647 = -0.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.7575211457131878
Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 674 tot...
Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
23 - 54.156682027649765 = -31.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
23 - 31.63235294117647 = -8.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071

```

{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0

=====

Afstand van bronindex 675 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 4.174303239301221

Euclidische afstand: 2.0431111666527646

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1307.431565758457

Euclidische afstand: 36.15842316471305

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 186.00261918492888

Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0

=====

Afstand van bronindex 676 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 64.26452880321087

Euclidische afstand: 8.016516001556466

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

24 - 31.63235294117647 = -7.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 58.41438389081123

Euclidische afstand: 7.642930320944397

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2

=====

```

Afstand van bronindex 677 tot...
  Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 4.414904743060619
  Euclidische afstand: 2.1011674714454864
-----
  Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1307.7218883391024
  Euclidische afstand: 36.16243753315175
-----
  Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 186.19869761630144
  Euclidische afstand: 13.645464360596215
-----
{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 678 tot...
  Centrumindex 0:
    43 - 15.992481203007529 = 27.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 729.5502430889247
  Euclidische afstand: 27.010187764784693
-----
  Centrumindex 1:
    43 - 54.156682027649765 = -11.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 124.59746437596881
  Euclidische afstand: 11.162323430897745
-----
  Centrumindex 2:
    43 - 31.63235294117647 = 11.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 129.38497212610534
  Euclidische afstand: 11.374751519312646
-----
{0: 27.010187764784693, 1: 11.162323430897745, 2: 11.374751519312646}
1
=====
Afstand van bronindex 679 tot...
  Centrumindex 0:
    36 - 15.992481203007529 = 20.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477

Centrumindex 1:

36 - 54.156682027649765 = -18.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 330.0813353437107

Euclidische afstand: 18.168140668315807

Centrumindex 2:

36 - 31.63235294117647 = 4.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 19.433991733948478

Euclidische afstand: 4.408400133149041

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}

2

=====

Afstand van bronindex 680 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 121.30964158516569

Euclidische afstand: 11.014065624698524

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 737.6112892607613

Euclidische afstand: 27.159000152081468

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 21.620266243752408

Euclidische afstand: 4.649759804952553

{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}

2

=====

Afstand van bronindex 681 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 121.5502430889251

Euclidische afstand: 11.02498267975624

Centrumindex 1:

```

                27 - 54.156682027649765 = -27.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----

Centrumindex 2:
                27 - 31.63235294117647 = -4.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 682 tot...
Centrumindex 0:
                20 - 15.992481203007529 = 4.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----

Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----

Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 683 tot...
Centrumindex 0:
                14 - 15.992481203007529 = -1.9924812030075287
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.114152863361451
Euclidische afstand: 2.0283374628896076
-----

Centrumindex 1:
                14 - 54.156682027649765 = -40.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1612.6850219796552
Euclidische afstand: 40.15824973750294

```

```

-----
Centrumindex 2:
    14 - 31.63235294117647 = -17.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 311.06144271434067
Euclidische afstand: 17.636934050858745
-----
{0: 2.0283374628896076, 1: 40.15824973750294, 2: 17.636934050858745}
0
=====
Afstand van bronindex 684 tot...
Centrumindex 0:
    60 - 15.992481203007529 = 44.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1936.8058821866687
Euclidische afstand: 44.00915679931472
-----
Centrumindex 1:
    60 - 54.156682027649765 = 5.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 34.2702754358768
Euclidische afstand: 5.854081946460674
-----
Centrumindex 2:
    60 - 31.63235294117647 = 28.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 804.8849721261053
Euclidische afstand: 28.37049474588177
-----
{0: 44.00915679931472, 1: 5.854081946460674, 2: 28.37049474588177}
1
=====
Afstand van bronindex 685 tot...
Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----
Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```



```

Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 686 tot...
Centrumindex 0:
    14 - 15.992481203007529 = -1.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.114152863361451
Euclidische afstand: 2.0283374628896076
-----
Centrumindex 1:
    14 - 54.156682027649765 = -40.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1612.6850219796552
Euclidische afstand: 40.15824973750294
-----
Centrumindex 2:
    14 - 31.63235294117647 = -17.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 311.06144271434067
Euclidische afstand: 17.636934050858745
-----
{0: 2.0283374628896076, 1: 40.15824973750294, 2: 17.636934050858745}
0
=====
Afstand van bronindex 687 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}

```

0

=====

Afstand van bronindex 688 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 4.174303239301221

Euclidische afstand: 2.0431111666527646

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1307.431565758457

Euclidische afstand: 36.15842316471305

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 186.00261918492888

Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}

0

=====

Afstand van bronindex 689 tot...

Centrumindex 0:

15 - 15.992481203007529 = -0.9924812030075287

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1.3697919611057916

Euclidische afstand: 1.1703811178867298

Centrumindex 1:

15 - 54.156682027649765 = -39.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1533.6619805050009

Euclidische afstand: 39.16199663583307

Centrumindex 2:

15 - 31.63235294117647 = -16.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 276.9928152633603

Euclidische afstand: 16.643101131200286

{0: 1.1703811178867298, 1: 39.16199663583307, 2: 16.643101131200286}

0

=====

Afstand van bronindex 690 tot...

Centrumindex 0:

```

31 - 15.992481203007529 = 15.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.61039346486487
Euclidische afstand: 15.020332668248892
-----

Centrumindex 1:
31 - 54.156682027649765 = -23.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 536.6481556202083
Euclidische afstand: 23.165667605752446
-----

Centrumindex 2:
31 - 31.63235294117647 = -0.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.7575211457131878
Euclidische afstand: 0.8703569070865055
-----

{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 691 tot...
Centrumindex 0:
4 - 15.992481203007529 = -11.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.20437842727142
Euclidische afstand: 12.008512748349457
-----

Centrumindex 1:
4 - 54.156682027649765 = -50.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2516.1089851132956
Euclidische afstand: 50.160831184434095
-----

Centrumindex 2:
4 - 31.63235294117647 = -27.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 763.9045799692426
Euclidische afstand: 27.63882378049476
-----

{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 692 tot...
Centrumindex 0:
27 - 15.992481203007529 = 11.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624

```

```

-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----

Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 693 tot...
Centrumindex 0:
    25 - 15.992481203007529 = 9.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----

Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----

Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 694 tot...
Centrumindex 0:
    60 - 15.992481203007529 = 44.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1936.8058821866687
Euclidische afstand: 44.00915679931472
-----

Centrumindex 1:
    60 - 54.156682027649765 = 5.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 34.2702754358768
Euclidische afstand: 5.854081946460674

Centrumindex 2:
60 - 31.63235294117647 = 28.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 804.8849721261053
Euclidische afstand: 28.37049474588177

{0: 44.00915679931472, 1: 5.854081946460674, 2: 28.37049474588177}
1

Afstand van bronindex 695 tot...

Centrumindex 0:
52 - 15.992481203007529 = 36.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1296.6855814347891
Euclidische afstand: 36.00952070542996

Centrumindex 1:
52 - 54.156682027649765 = -2.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 4.777187878273038
Euclidische afstand: 2.1856778990219574

Centrumindex 2:
52 - 31.63235294117647 = 20.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 415.0026191849289
Euclidische afstand: 20.37161307272767

{0: 36.00952070542996, 1: 2.1856778990219574, 2: 20.37161307272767}
1

Afstand van bronindex 696 tot...

Centrumindex 0:
44 - 15.992481203007529 = 28.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 784.5652806829097
Euclidische afstand: 28.010092479013878

Centrumindex 1:
44 - 54.156682027649765 = -10.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 103.28410032066928
Euclidische afstand: 10.1628785450122

Centrumindex 2:

```

44 - 31.63235294117647 = 12.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 153.12026624375238
Euclidische afstand: 12.37417739664954
-----
{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}
1
=====
Afstand van bronindex 697 tot...
Centrumindex 0:
27 - 15.992481203007529 = 11.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
27 - 54.156682027649765 = -27.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:
27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----
{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 698 tot...
Centrumindex 0:
49 - 15.992481203007529 = 33.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1089.6404686528344
Euclidische afstand: 33.009702644114114
-----
Centrumindex 1:
49 - 54.156682027649765 = -5.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 26.71728004417163
Euclidische afstand: 5.1688760910058225
-----
Centrumindex 2:
49 - 31.63235294117647 = 17.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 301.7967368319877
Euclidische afstand: 17.37229797211606

```

{0: 33.009702644114114, 1: 5.1688760910058225, 2: 17.37229797211606}

1

=====

Afstand van bronindex 699 tot...

Centrumindex 0:

42 - 15.992481203007529 = 26.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 676.5352054949398

Euclidische afstand: 26.010290376982333

Centrumindex 1:

42 - 54.156682027649765 = -12.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 147.91082843126833

Euclidische afstand: 12.161859579491466

Centrumindex 2:

42 - 31.63235294117647 = 10.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 107.64967800845828

Euclidische afstand: 10.375436280391215

{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}

2

=====

Afstand van bronindex 700 tot...

Centrumindex 0:

18 - 15.992481203007529 = 2.0075187969924713

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 4.414904743060619

Euclidische afstand: 2.1011674714454864

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1307.7218883391024

Euclidische afstand: 36.16243753315175

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 186.19869761630144

Euclidische afstand: 13.645464360596215

{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}

0

=====

Afstand van bronindex 701 tot...

Centrumindex 0:

$$35 - 15.992481203007529 = 19.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 361.6705438408046

Euclidische afstand: 19.017637704005317

Centrumindex 1:

$$35 - 54.156682027649765 = -19.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 367.3946993990102

Euclidische afstand: 19.16754286284526

Centrumindex 2:

$$35 - 31.63235294117647 = 3.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 11.69869761630142

Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}

2

=====

Afstand van bronindex 702 tot...

Centrumindex 0:

$$18 - 15.992481203007529 = 2.0075187969924713$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 4.174303239301221

Euclidische afstand: 2.0431111666527646

Centrumindex 1:

$$18 - 54.156682027649765 = -36.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1307.431565758457

Euclidische afstand: 36.15842316471305

Centrumindex 2:

$$18 - 31.63235294117647 = -13.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 186.00261918492888

Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}

0

=====

Afstand van bronindex 703 tot...

Centrumindex 0:

$$25 - 15.992481203007529 = 9.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872

Centrumindex 1:
25 - 54.156682027649765 = -29.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917

Centrumindex 2:
25 - 31.63235294117647 = -6.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2

=====

Afstand van bronindex 704 tot...

Centrumindex 0:
26 - 15.992481203007529 = 10.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 100.29460399118075
Euclidische afstand: 10.014719366571425

Centrumindex 1:
26 - 54.156682027649765 = -28.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 792.9246533160608
Euclidische afstand: 28.15891782927854

Centrumindex 2:
26 - 31.63235294117647 = -5.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 31.88497212610535
Euclidische afstand: 5.646677972587542

{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2

=====

Afstand van bronindex 705 tot...

Centrumindex 0:
39 - 15.992481203007529 = 23.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835

Centrumindex 1:

```

39 - 54.156682027649765 = -15.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----

Centrumindex 2:
39 - 31.63235294117647 = 7.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----

{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 706 tot...
Centrumindex 0:
45 - 15.992481203007529 = 29.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 841.8209197806541
Euclidische afstand: 29.0141503370451
-----

Centrumindex 1:
45 - 54.156682027649765 = -9.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 84.2610588460149
Euclidische afstand: 9.179382269304122
-----

Centrumindex 2:
45 - 31.63235294117647 = 13.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 179.05163879277202
Euclidische afstand: 13.381017853391125
-----

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}
1
=====
Afstand van bronindex 707 tot...
Centrumindex 0:
42 - 15.992481203007529 = 26.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597
-----

Centrumindex 1:
42 - 54.156682027649765 = -12.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654

```

```

-----
Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----
{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 708 tot...
Centrumindex 0:
    22 - 15.992481203007529 = 6.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 36.47505511900039
Euclidische afstand: 6.039458180913283
-----
Centrumindex 1:
    22 - 54.156682027649765 = -32.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1034.4684321179043
Euclidische afstand: 32.16315332982611
-----
Centrumindex 2:
    22 - 31.63235294117647 = -9.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 93.13987408688966
Euclidische afstand: 9.650900169771194
-----
{0: 6.039458180913283, 1: 32.16315332982611, 2: 9.650900169771194}
0
=====
Afstand van bronindex 709 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----
{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 710 tot...
  Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 64.50513030697027
  Euclidische afstand: 8.031508594714337
-----
  Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 909.841704007305
  Euclidische afstand: 30.163582413355762
-----
  Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 58.61046232218378
  Euclidische afstand: 7.655747012681635
-----
{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 711 tot...
  Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 121.30964158516569
  Euclidische afstand: 11.014065624698524
-----
  Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 737.6112892607613
  Euclidische afstand: 27.159000152081468
-----
  Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 21.620266243752408
  Euclidische afstand: 4.649759804952553
-----
{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}

```

2

=====

Afstand van bronindex 712 tot...

Centrumindex 0:

48 - 15.992481203007529 = 32.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1024.866032562609

Euclidische afstand: 32.01352889892973

Centrumindex 1:

48 - 54.156682027649765 = -6.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 38.32096668011632

Euclidische afstand: 6.190393095766724

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 268.2575211457132

Euclidische afstand: 16.37856895903037

{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}

1

=====

Afstand van bronindex 713 tot...

Centrumindex 0:

29 - 15.992481203007529 = 13.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 169.3397167731356

Euclidische afstand: 13.013059470129829

Centrumindex 1:

29 - 54.156682027649765 = -25.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 632.9845611501622

Euclidische afstand: 25.15918442935228

Centrumindex 2:

29 - 31.63235294117647 = -2.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 7.090854479046523

Euclidische afstand: 2.662865839475681

{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}

2

=====

Afstand van bronindex 714 tot...

Centrumindex 0:

$52 - 15.992481203007529 = 36.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 1296.6855814347891
 Euclidische afstand: 36.00952070542996

 Centrumindex 1:
 $52 - 54.156682027649765 = -2.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 4.777187878273038
 Euclidische afstand: 2.1856778990219574

 Centrumindex 2:
 $52 - 31.63235294117647 = 20.36764705882353$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 415.0026191849289
 Euclidische afstand: 20.37161307272767

 {0: 36.00952070542996, 1: 2.1856778990219574, 2: 20.37161307272767}
 1

=====
 Afstand van bronindex 715 tot...

Centrumindex 0:
 $19 - 15.992481203007529 = 3.0075187969924713$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 9.189340833286163
 Euclidische afstand: 3.031392556777522

 Centrumindex 1:
 $19 - 54.156682027649765 = -35.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 1236.1182017031574
 Euclidische afstand: 35.15847268729342

 Centrumindex 2:
 $19 - 31.63235294117647 = -12.632352941176471$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 159.73791330257595
 Euclidische afstand: 12.638746508359757

 {0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
 0

=====
 Afstand van bronindex 716 tot...

Centrumindex 0:
 $38 - 15.992481203007529 = 22.00751879699247$
 $1 - 0.3796992481203007 = 0.6203007518796992$
 Totale euclidische som: 484.71565662275947
 Euclidische afstand: 22.016258915237152

```

-----
Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 261.45460723311163
Euclidische afstand: 16.169558040747795
-----

Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 40.90457996924259
Euclidische afstand: 6.395668844557432
-----

{0: 22.016258915237152, 1: 16.169558040747795, 2: 6.395668844557432}
2
=====
Afstand van bronindex 717 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----

Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----

Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 718 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 121.30964158516569
Euclidische afstand: 11.014065624698524
-----

Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 737.6112892607613
Euclidische afstand: 27.159000152081468
-----
Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 21.620266243752408
Euclidische afstand: 4.649759804952553
-----
{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2
=====
Afstand van bronindex 719 tot...
Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297
-----
Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755
-----
Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717
-----
{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2
=====
Afstand van bronindex 720 tot...
Centrumindex 0:
    6 - 15.992481203007529 = -9.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 100.2344536152413
Euclidische afstand: 10.011715817742797
-----
Centrumindex 1:
    6 - 54.156682027649765 = -48.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2319.4822570026963
Euclidische afstand: 48.16100348832753
-----
Centrumindex 2:

```



```

        6 - 31.63235294117647 = -25.63235294117647
        1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 657.3751682045367
Euclidische afstand: 25.639328544338614
-----
{0: 10.011715817742797, 1: 48.16100348832753, 2: 25.639328544338614}
0
=====
Afstand van bronindex 721 tot...
Centrumindex 0:
        17 - 15.992481203007529 = 1.0075187969924713
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1592656453162782
Euclidische afstand: 1.0766919918510949
-----
Centrumindex 1:
        17 - 54.156682027649765 = -37.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1380.7449298137565
Euclidische afstand: 37.158376307553546
-----
Centrumindex 2:
        17 - 31.63235294117647 = -14.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 214.26732506728183
Euclidische afstand: 14.637872969365523
-----
{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====
Afstand van bronindex 722 tot...
Centrumindex 0:
        34 - 15.992481203007529 = 18.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185
-----
Centrumindex 1:
        34 - 54.156682027649765 = -20.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775
-----
Centrumindex 2:
        34 - 31.63235294117647 = 2.367647058823529
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729

```

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====

Afstand van bronindex 723 tot...

Centrumindex 0:

50 - 15.992481203007529 = 34.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1156.6555062468194

Euclidische afstand: 34.009638431580235

Centrumindex 1:

50 - 54.156682027649765 = -4.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 17.4039159888721

Euclidische afstand: 4.171800089754074

Centrumindex 2:

50 - 31.63235294117647 = 18.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 337.53203094963476

Euclidische afstand: 18.372044822219294

{0: 34.009638431580235, 1: 4.171800089754074, 2: 18.372044822219294}
1
=====

Afstand van bronindex 724 tot...

Centrumindex 0:

27 - 15.992481203007529 = 11.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 121.5502430889251

Euclidische afstand: 11.02498267975624

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 737.9016118414064

Euclidische afstand: 27.16434449496999

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 21.816344675124956

Euclidische afstand: 4.67079700641389

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====

Afstand van bronindex 725 tot...

Centrumindex 0:

$$20 - 15.992481203007529 = 4.007518796992471$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

$$20 - 54.156682027649765 = -34.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

$$20 - 31.63235294117647 = -11.632352941176471$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 135.473207420223

Euclidische afstand: 11.639295830084524

{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}

0

Afstand van bronindex 726 tot...

Centrumindex 0:

$$30 - 15.992481203007529 = 14.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 196.59535587087993

Euclidische afstand: 14.021246587621228

Centrumindex 1:

$$30 - 54.156682027649765 = -24.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 583.9615196755078

Euclidische afstand: 24.16529577049509

Centrumindex 2:

$$30 - 31.63235294117647 = -1.632352941176471$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 3.02222702806613

Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}

2

Afstand van bronindex 727 tot...

Centrumindex 0:

$$27 - 15.992481203007529 = 11.007518796992471$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624

Centrumindex 1:
27 - 54.156682027649765 = -27.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999

Centrumindex 2:
27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2

=====

Afstand van bronindex 728 tot...

Centrumindex 0:
25 - 15.992481203007529 = 9.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872

Centrumindex 1:
25 - 54.156682027649765 = -29.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917

Centrumindex 2:
25 - 31.63235294117647 = -6.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2

=====

Afstand van bronindex 729 tot...

Centrumindex 0:
25 - 15.992481203007529 = 9.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872

Centrumindex 1:

```

25 - 54.156682027649765 = -29.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
25 - 31.63235294117647 = -6.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----
{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 730 tot...
Centrumindex 0:
29 - 15.992481203007529 = 13.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 169.58031827689499
Euclidische afstand: 13.022300805805976
-----
Centrumindex 1:
29 - 54.156682027649765 = -25.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 633.2748837308073
Euclidische afstand: 25.164953481594345
-----
Centrumindex 2:
29 - 31.63235294117647 = -2.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 7.286932910419072
Euclidische afstand: 2.6994319606945223
-----
{0: 13.022300805805976, 1: 25.164953481594345, 2: 2.6994319606945223}
2
=====
Afstand van bronindex 731 tot...
Centrumindex 0:
11 - 15.992481203007529 = -4.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.069040081406623
Euclidische afstand: 5.00689924817812
-----
Centrumindex 1:
11 - 54.156682027649765 = -43.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1862.6251141455537
Euclidische afstand: 43.15814076330853

```

```

-----
Centrumindex 2:
    11 - 31.63235294117647 = -20.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 425.8555603613995
Euclidische afstand: 20.636268082223577
-----
{0: 5.00689924817812, 1: 43.15814076330853, 2: 20.636268082223577}
0
=====
Afstand van bronindex 732 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 121.30964158516569
Euclidische afstand: 11.014065624698524
-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 737.6112892607613
Euclidische afstand: 27.159000152081468
-----
Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 21.620266243752408
Euclidische afstand: 4.649759804952553
-----
{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2
=====
Afstand van bronindex 733 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 734 tot...
Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764
-----
Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 735 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}

```

2

=====

Afstand van bronindex 736 tot...

Centrumindex 0:

48 - 15.992481203007529 = 32.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1024.6254310588495

Euclidische afstand: 32.00977086857776

Centrumindex 1:

48 - 54.156682027649765 = -6.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 38.03064409947116

Euclidische afstand: 6.16689906674912

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 268.06144271434067

Euclidische afstand: 16.372582041765455

{0: 32.00977086857776, 1: 6.16689906674912, 2: 16.372582041765455}

1

=====

Afstand van bronindex 737 tot...

Centrumindex 0:

35 - 15.992481203007529 = 19.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 361.6705438408046

Euclidische afstand: 19.017637704005317

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 367.3946993990102

Euclidische afstand: 19.16754286284526

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 11.69869761630142

Euclidische afstand: 3.420335892321311

{0: 19.017637704005317, 1: 19.16754286284526, 2: 3.420335892321311}

2

=====

Afstand van bronindex 738 tot...

Centrumindex 0:


```

      82 - 15.992481203007529 = 66.00751879699247
      0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4357.136709254338
Euclidische afstand: 66.0086108720244
-----

Centrumindex 1:
      82 - 54.156682027649765 = 27.843317972350235
      0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 775.3762662192871
Euclidische afstand: 27.845578934891748
-----

Centrumindex 2:
      82 - 31.63235294117647 = 50.36764705882353
      0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2537.0614427143405
Euclidische afstand: 50.36925096439633
-----

{0: 66.0086108720244, 1: 27.845578934891748, 2: 50.36925096439633}
1
=====
Afstand van bronindex 739 tot...
Centrumindex 0:
      82 - 15.992481203007529 = 66.00751879699247
      0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4357.136709254338
Euclidische afstand: 66.0086108720244
-----

Centrumindex 1:
      82 - 54.156682027649765 = 27.843317972350235
      0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 775.3762662192871
Euclidische afstand: 27.845578934891748
-----

Centrumindex 2:
      82 - 31.63235294117647 = 50.36764705882353
      0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2537.0614427143405
Euclidische afstand: 50.36925096439633
-----

{0: 66.0086108720244, 1: 27.845578934891748, 2: 50.36925096439633}
1
=====
Afstand van bronindex 740 tot...
Centrumindex 0:
      82 - 15.992481203007529 = 66.00751879699247
      1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 4357.377310758097
Euclidische afstand: 66.01043334775267

```

```

-----
Centrumindex 1:
      82 - 54.156682027649765 = 27.843317972350235
      1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 775.6665887999322
Euclidische afstand: 27.85079152914567
-----

Centrumindex 2:
      82 - 31.63235294117647 = 50.36764705882353
      1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 2537.2575211457133
Euclidische afstand: 50.371197336828445
-----

{0: 66.01043334775267, 1: 27.85079152914567, 2: 50.371197336828445}
1
=====
Afstand van bronindex 741 tot...
Centrumindex 0:
      36 - 15.992481203007529 = 20.00751879699247
      0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 400.4449799310302
Euclidische afstand: 20.011121406133896
-----

Centrumindex 1:
      36 - 54.156682027649765 = -18.156682027649765
      0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 329.79101276306557
Euclidische afstand: 18.160149029208586
-----

Centrumindex 2:
      36 - 31.63235294117647 = 4.367647058823529
      0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 19.23791330257593
Euclidische afstand: 4.386104570410506
-----

{0: 20.011121406133896, 1: 18.160149029208586, 2: 4.386104570410506}
2
=====
Afstand van bronindex 742 tot...
Centrumindex 0:
      21 - 15.992481203007529 = 5.007518796992471
      1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 25.46001752501545
Euclidische afstand: 5.0457920612145175
-----

Centrumindex 1:
      21 - 54.156682027649765 = -33.156682027649765
      1 - 0.3548387096774193 = 0.6451612903225807

```

```

Totale euclidische som: 1099.7817961732037
Euclidische afstand: 33.162958193942885
-----
Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 113.4045799692426
Euclidische afstand: 10.649158650768737
-----
{0: 5.0457920612145175, 1: 33.162958193942885, 2: 10.649158650768737}
0
=====
Afstand van bronindex 743 tot...
Centrumindex 0:
    24 - 15.992481203007529 = 8.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----
Centrumindex 1:
    24 - 54.156682027649765 = -30.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
    24 - 31.63235294117647 = -7.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 744 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.61039346486487
Euclidische afstand: 15.020332668248892
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 536.6481556202083
Euclidische afstand: 23.165667605752446
-----
Centrumindex 2:

```

```

31 - 31.63235294117647 = -0.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.7575211457131878
Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 745 tot...
Centrumindex 0:
70 - 15.992481203007529 = 54.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2916.956258126518
Euclidische afstand: 54.0088535161275
-----
Centrumindex 1:
70 - 54.156682027649765 = 15.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 251.13663488288148
Euclidische afstand: 15.84729108973775
-----
Centrumindex 2:
70 - 31.63235294117647 = 38.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1472.2379133025759
Euclidische afstand: 38.36975258328591
-----
{0: 54.0088535161275, 1: 15.84729108973775, 2: 38.36975258328591}
1
=====
Afstand van bronindex 746 tot...
Centrumindex 0:
16 - 15.992481203007529 = 0.007518796992471266
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----
Centrumindex 1:
16 - 54.156682027649765 = -38.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
16 - 31.63235294117647 = -15.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028

```

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====

Afstand van bronindex 747 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 196.59535587087993

Euclidische afstand: 14.021246587621228

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 583.9615196755078

Euclidische afstand: 24.16529577049509

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 3.02222702806613

Euclidische afstand: 1.738455356937914

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2
=====

Afstand van bronindex 748 tot...

Centrumindex 0:

19 - 15.992481203007529 = 3.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 9.189340833286163

Euclidische afstand: 3.031392556777522

Centrumindex 1:

19 - 54.156682027649765 = -35.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1236.1182017031574

Euclidische afstand: 35.15847268729342

Centrumindex 2:

19 - 31.63235294117647 = -12.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 159.73791330257595

Euclidische afstand: 12.638746508359757

{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====

```

Afstand van bronindex 749 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 225.36979196110548
  Euclidische afstand: 15.012321338191022
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 536.3578330395632
  Euclidische afstand: 23.159400532819564
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 0.5614427143406386
  Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 750 tot...
  Centrumindex 0:
    4 - 15.992481203007529 = -11.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 144.20437842727142
  Euclidische afstand: 12.008512748349457
-----
  Centrumindex 1:
    4 - 54.156682027649765 = -50.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 2516.1089851132956
  Euclidische afstand: 50.160831184434095
-----
  Centrumindex 2:
    4 - 31.63235294117647 = -27.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 763.9045799692426
  Euclidische afstand: 27.63882378049476
-----
{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 751 tot...
  Centrumindex 0:
    6 - 15.992481203007529 = -9.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 100.2344536152413
Euclidische afstand: 10.011715817742797

Centrumindex 1:

6 - 54.156682027649765 = -48.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 2319.4822570026963

Euclidische afstand: 48.16100348832753

Centrumindex 2:

6 - 31.63235294117647 = -25.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 657.3751682045367

Euclidische afstand: 25.639328544338614

{0: 10.011715817742797, 1: 48.16100348832753, 2: 25.639328544338614}

0

=====

Afstand van bronindex 752 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 289.39986714907536

Euclidische afstand: 17.011756733185297

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 447.73110492896416

Euclidische afstand: 21.15965748609755

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.0320309496347546

Euclidische afstand: 1.4254932303012717

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}

2

=====

Afstand van bronindex 753 tot...

Centrumindex 0:

23 - 15.992481203007529 = 7.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 49.24949120922594

Euclidische afstand: 7.017798173873764

Centrumindex 1:

```

                23 - 54.156682027649765 = -31.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702
-----
Centrumindex 2:
                23 - 31.63235294117647 = -8.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 754 tot...
Centrumindex 0:
                48 - 15.992481203007529 = 32.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1024.866032562609
Euclidische afstand: 32.01352889892973
-----
Centrumindex 1:
                48 - 54.156682027649765 = -6.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 38.32096668011632
Euclidische afstand: 6.190393095766724
-----
Centrumindex 2:
                48 - 31.63235294117647 = 16.36764705882353
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 268.2575211457132
Euclidische afstand: 16.37856895903037
-----
{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}
1
=====
Afstand van bronindex 755 tot...
Centrumindex 0:
                67 - 15.992481203007529 = 51.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 2602.151746848323
Euclidische afstand: 51.011290386034375
-----
Centrumindex 1:
                67 - 54.156682027649765 = 12.843317972350235
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 165.36704962942525
Euclidische afstand: 12.85951202921111

```



```

-----
Centrumindex 2:
    67 - 31.63235294117647 = 35.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 1251.2281093810072
Euclidische afstand: 35.372702884865994
-----
{0: 51.011290386034375, 1: 12.85951202921111, 2: 35.372702884865994}
1
=====
Afstand van bronindex 756 tot...
Centrumindex 0:
    28 - 15.992481203007529 = 12.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----
Centrumindex 1:
    28 - 54.156682027649765 = -26.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----
Centrumindex 2:
    28 - 31.63235294117647 = -3.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----
{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 757 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 758 tot...
Centrumindex 0:
    34 - 15.992481203007529 = 18.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185
-----
Centrumindex 1:
    34 - 54.156682027649765 = -20.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775
-----
Centrumindex 2:
    34 - 31.63235294117647 = 2.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729
-----
{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====
Afstand van bronindex 759 tot...
Centrumindex 0:
    33 - 15.992481203007529 = 17.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 289.6404686528347
Euclidische afstand: 17.018826888268027
-----
Centrumindex 1:
    33 - 54.156682027649765 = -21.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 448.0214275096093
Euclidische afstand: 21.166516659800433
-----
Centrumindex 2:
    33 - 31.63235294117647 = 1.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 2.228109381007304
Euclidische afstand: 1.492685292018148
-----
{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}

```

2

=====

Afstand van bronindex 760 tot...

Centrumindex 0:

$$72 - 15.992481203007529 = 56.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 3136.986333314488

Euclidische afstand: 56.00880585510182

Centrumindex 1:

$$72 - 54.156682027649765 = 17.843317972350235$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 318.5099067722825

Euclidische afstand: 17.84684584940102

Centrumindex 2:

$$72 - 31.63235294117647 = 40.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 1629.70850153787

Euclidische afstand: 40.36964827116865

{0: 56.00880585510182, 1: 17.84684584940102, 2: 40.36964827116865}

1

=====

Afstand van bronindex 761 tot...

Centrumindex 0:

$$41 - 15.992481203007529 = 25.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 625.5201679009549

Euclidische afstand: 25.01040119432223

Centrumindex 1:

$$41 - 54.156682027649765 = -13.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 173.22419248656786

Euclidische afstand: 13.161466198207853

Centrumindex 2:

$$41 - 31.63235294117647 = 9.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 87.91438389081122

Euclidische afstand: 9.376267055220389

{0: 25.01040119432223, 1: 13.161466198207853, 2: 9.376267055220389}

2

=====

Afstand van bronindex 762 tot...

Centrumindex 0:

```

                20 - 15.992481203007529 = 4.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 16.444979931030506
Euclidische afstand: 4.05524104475067
-----

Centrumindex 1:
                20 - 54.156682027649765 = -34.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1167.0951602285033
Euclidische afstand: 34.162774480836646
-----

Centrumindex 2:
                20 - 31.63235294117647 = -11.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 135.66928585159556
Euclidische afstand: 11.64771590706073
-----

{0: 4.05524104475067, 1: 34.162774480836646, 2: 11.64771590706073}
0
=====
Afstand van bronindex 763 tot...
Centrumindex 0:
                36 - 15.992481203007529 = 20.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 400.6855814347896
Euclidische afstand: 20.017132198064477
-----

Centrumindex 1:
                36 - 54.156682027649765 = -18.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 330.0813353437107
Euclidische afstand: 18.168140668315807
-----

Centrumindex 2:
                36 - 31.63235294117647 = 4.367647058823529
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 19.433991733948478
Euclidische afstand: 4.408400133149041
-----

{0: 20.017132198064477, 1: 18.168140668315807, 2: 4.408400133149041}
2
=====
Afstand van bronindex 764 tot...
Centrumindex 0:
                16 - 15.992481203007529 = 0.007518796992471266
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397

```

```

-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----

Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----

{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 765 tot...
Centrumindex 0:
    51 - 15.992481203007529 = 35.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1225.911145344564
Euclidische afstand: 35.01301394259803
-----

Centrumindex 1:
    51 - 54.156682027649765 = -3.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 10.38087451421773
Euclidische afstand: 3.221936454093676
-----

Centrumindex 2:
    51 - 31.63235294117647 = 19.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 375.4634034986544
Euclidische afstand: 19.37687806378144
-----

{0: 35.01301394259803, 1: 3.221936454093676, 2: 19.37687806378144}
1
=====
Afstand van bronindex 766 tot...
Centrumindex 0:
    72 - 15.992481203007529 = 56.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 3136.986333314488
Euclidische afstand: 56.00880585510182
-----

Centrumindex 1:
    72 - 54.156682027649765 = 17.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 318.5099067722825
Euclidische afstand: 17.84684584940102

Centrumindex 2:

72 - 31.63235294117647 = 40.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 1629.70850153787

Euclidische afstand: 40.36964827116865

{0: 56.00880585510182, 1: 17.84684584940102, 2: 40.36964827116865}

1

=====

Afstand van bronindex 767 tot...

Centrumindex 0:

30 - 15.992481203007529 = 14.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 196.35475436712053

Euclidische afstand: 14.012664071015209

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 583.6711970948627

Euclidische afstand: 24.159288008856194

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.8261485966935807

Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}

2

=====

Afstand van bronindex 768 tot...

Centrumindex 0:

62 - 15.992481203007529 = 46.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2116.835957374639

Euclidische afstand: 46.009085595941144

Centrumindex 1:

62 - 54.156682027649765 = 7.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 61.64354732527774

Euclidische afstand: 7.85134047951544

Centrumindex 2:

```

        62 - 31.63235294117647 = 30.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 769 tot...
Centrumindex 0:
        32 - 15.992481203007529 = 16.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----
Centrumindex 1:
        32 - 54.156682027649765 = -22.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----
Centrumindex 2:
        32 - 31.63235294117647 = 0.367647058823529
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252
-----
{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====
Afstand van bronindex 770 tot...
Centrumindex 0:
        24 - 15.992481203007529 = 8.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.26452880321087
Euclidische afstand: 8.016516001556466
-----
Centrumindex 1:
        24 - 54.156682027649765 = -30.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 909.5513814266599
Euclidische afstand: 30.158769560886597
-----
Centrumindex 2:
        24 - 31.63235294117647 = -7.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397

```

{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====

Afstand van bronindex 771 tot...

Centrumindex 0:

48 - 15.992481203007529 = 32.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1024.6254310588495

Euclidische afstand: 32.00977086857776

Centrumindex 1:

48 - 54.156682027649765 = -6.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 38.03064409947116

Euclidische afstand: 6.16689906674912

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 268.06144271434067

Euclidische afstand: 16.372582041765455

{0: 32.00977086857776, 1: 6.16689906674912, 2: 16.372582041765455}
1
=====

Afstand van bronindex 772 tot...

Centrumindex 0:

57 - 15.992481203007529 = 41.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1681.760769404714

Euclidische afstand: 41.00927662620634

Centrumindex 1:

57 - 54.156682027649765 = 2.843317972350235

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 8.210367601775387

Euclidische afstand: 2.865373902612953

Centrumindex 2:

57 - 31.63235294117647 = 25.36764705882353

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 643.6790897731642

Euclidische afstand: 25.370831475794485

{0: 41.00927662620634, 1: 2.865373902612953, 2: 25.370831475794485}
1
=====

Afstand van bronindex 773 tot...

Centrumindex 0:

$$62 - 15.992481203007529 = 46.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 2116.835957374639

Euclidische afstand: 46.009085595941144

Centrumindex 1:

$$62 - 54.156682027649765 = 7.843317972350235$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 61.64354732527774

Euclidische afstand: 7.85134047951544

Centrumindex 2:

$$62 - 31.63235294117647 = 30.36764705882353$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 922.3555603613994

Euclidische afstand: 30.370307215459633

{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}

1

=====

Afstand van bronindex 774 tot...

Centrumindex 0:

$$54 - 15.992481203007529 = 38.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 1444.9562581265186

Euclidische afstand: 38.0125802613624

Centrumindex 1:

$$54 - 54.156682027649765 = -0.15668202764976513$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 0.44078234831913904

Euclidische afstand: 0.6639144133991512

Centrumindex 2:

$$54 - 31.63235294117647 = 22.36764705882353$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 500.66928585159553

Euclidische afstand: 22.3756404567913

{0: 38.0125802613624, 1: 0.6639144133991512, 2: 22.3756404567913}

1

=====

Afstand van bronindex 775 tot...

Centrumindex 0:

$$18 - 15.992481203007529 = 2.0075187969924713$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646

Centrumindex 1:

18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305

Centrumindex 2:

18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0

=====

Afstand van bronindex 776 tot...

Centrumindex 0:

62 - 15.992481203007529 = 46.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144

Centrumindex 1:

62 - 54.156682027649765 = 7.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544

Centrumindex 2:

62 - 31.63235294117647 = 30.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633

{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1

=====

Afstand van bronindex 777 tot...

Centrumindex 0:

5 - 15.992481203007529 = -10.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 121.21941602125636
Euclidische afstand: 11.009968938251205

Centrumindex 1:

```

5 - 54.156682027649765 = -49.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2416.795621057996
Euclidische afstand: 49.16091558400836
-----

Centrumindex 2:
5 - 31.63235294117647 = -26.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 709.6398740868897
Euclidische afstand: 26.639066689486132
-----

{0: 11.009968938251205, 1: 49.16091558400836, 2: 26.639066689486132}
0
=====
Afstand van bronindex 778 tot...
Centrumindex 0:
62 - 15.992481203007529 = 46.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----

Centrumindex 1:
62 - 54.156682027649765 = 7.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----

Centrumindex 2:
62 - 31.63235294117647 = 30.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----

{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 779 tot...
Centrumindex 0:
43 - 15.992481203007529 = 27.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 729.7908445926842
Euclidische afstand: 27.014641300463055
-----

Centrumindex 1:
43 - 54.156682027649765 = -11.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 124.88778695661397
Euclidische afstand: 11.175320440891793

```

```

-----
Centrumindex 2:
    43 - 31.63235294117647 = 11.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 129.5810505574779
Euclidische afstand: 11.383367276754182
-----
{0: 27.014641300463055, 1: 11.175320440891793, 2: 11.383367276754182}
1
=====
Afstand van bronindex 780 tot...
Centrumindex 0:
    13 - 15.992481203007529 = -2.9924812030075287
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.339716773135907
Euclidische afstand: 3.0560950203054724
-----
Centrumindex 1:
    13 - 54.156682027649765 = -41.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1694.2887086156
Euclidische afstand: 41.161738406141204
-----
Centrumindex 2:
    13 - 31.63235294117647 = -18.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 347.52222702806614
Euclidische afstand: 18.64194804810018
-----
{0: 3.0560950203054724, 1: 41.161738406141204, 2: 18.64194804810018}
0
=====
Afstand van bronindex 781 tot...
Centrumindex 0:
    17 - 15.992481203007529 = 1.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3998671490756767
Euclidische afstand: 1.183159815526067
-----
Centrumindex 1:
    17 - 54.156682027649765 = -37.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1381.0352523944018
Euclidische afstand: 37.16228265855586
-----
Centrumindex 2:
    17 - 31.63235294117647 = -14.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 214.4634034986544
Euclidische afstand: 14.644569078626192
-----
{0: 1.183159815526067, 1: 37.16228265855586, 2: 14.644569078626192}
0
=====
Afstand van bronindex 782 tot...
Centrumindex 0:
    29 - 15.992481203007529 = 13.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 169.3397167731356
Euclidische afstand: 13.013059470129829
-----
Centrumindex 1:
    29 - 54.156682027649765 = -25.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 632.9845611501622
Euclidische afstand: 25.15918442935228
-----
Centrumindex 2:
    29 - 31.63235294117647 = -2.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 7.090854479046523
Euclidische afstand: 2.662865839475681
-----
{0: 13.013059470129829, 1: 25.15918442935228, 2: 2.662865839475681}
2
=====
Afstand van bronindex 783 tot...
Centrumindex 0:
    62 - 15.992481203007529 = 46.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----
Centrumindex 1:
    62 - 54.156682027649765 = 7.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----
Centrumindex 2:
    62 - 31.63235294117647 = 30.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}

```

1

=====

Afstand van bronindex 784 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 81.27956639719581

Euclidische afstand: 9.01551808811872

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 850.2380173713603

Euclidische afstand: 29.158841152750917

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 44.14967800845829

Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

=====

Afstand van bronindex 785 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 81.27956639719581

Euclidische afstand: 9.01551808811872

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 850.2380173713603

Euclidische afstand: 29.158841152750917

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 44.14967800845829

Euclidische afstand: 6.644522406347825

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

=====

Afstand van bronindex 786 tot...

Centrumindex 0:

```

18 - 15.992481203007529 = 2.0075187969924713
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 4.414904743060619
Euclidische afstand: 2.1011674714454864
-----

Centrumindex 1:
18 - 54.156682027649765 = -36.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----

Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----

{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}
0
=====
Afstand van bronindex 787 tot...
Centrumindex 0:
8 - 15.992481203007529 = -7.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 64.0239272994518
Euclidische afstand: 8.001495316467528
-----

Centrumindex 1:
8 - 54.156682027649765 = -46.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2130.5652063114526
Euclidische afstand: 46.15804595421531
-----

Centrumindex 2:
8 - 31.63235294117647 = -23.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 558.6496780084583
Euclidische afstand: 23.63577115324267
-----

{0: 8.001495316467528, 1: 46.15804595421531, 2: 23.63577115324267}
0
=====
Afstand van bronindex 788 tot...
Centrumindex 0:
1 - 15.992481203007529 = -14.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.1592656453166
Euclidische afstand: 15.00530791571158

```

```

-----
Centrumindex 1:
    1 - 54.156682027649765 = -53.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2826.049077279194
Euclidische afstand: 53.16059703651939
-----

Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 938.6986976163015
Euclidische afstand: 30.63819018180254
-----

{0: 15.00530791571158, 1: 53.16059703651939, 2: 30.63819018180254}
0
=====
Afstand van bronindex 789 tot...
Centrumindex 0:
    46 - 15.992481203007529 = 30.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 900.5953558708795
Euclidische afstand: 30.009920957424722
-----

Centrumindex 1:
    46 - 54.156682027649765 = -8.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 66.65737221007022
Euclidische afstand: 8.16439662253557
-----

Centrumindex 2:
    46 - 31.63235294117647 = 14.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 206.5908544790465
Euclidische afstand: 14.373268747193398
-----

{0: 30.009920957424722, 1: 8.16439662253557, 2: 14.373268747193398}
1
=====
Afstand van bronindex 790 tot...
Centrumindex 0:
    62 - 15.992481203007529 = 46.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----

Centrumindex 1:
    62 - 54.156682027649765 = 7.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193

```



```

Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----
Centrumindex 2:
    62 - 31.63235294117647 = 30.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 791 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----
{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 792 tot...
Centrumindex 0:
    62 - 15.992481203007529 = 46.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----
Centrumindex 1:
    62 - 54.156682027649765 = 7.843317972350235
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----
Centrumindex 2:

```

```

        62 - 31.63235294117647 = 30.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 793 tot...
Centrumindex 0:
        62 - 15.992481203007529 = 46.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2116.835957374639
Euclidische afstand: 46.009085595941144
-----
Centrumindex 1:
        62 - 54.156682027649765 = 7.843317972350235
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 61.64354732527774
Euclidische afstand: 7.85134047951544
-----
Centrumindex 2:
        62 - 31.63235294117647 = 30.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 922.3555603613994
Euclidische afstand: 30.370307215459633
-----
{0: 46.009085595941144, 1: 7.85134047951544, 2: 30.370307215459633}
1
=====
Afstand van bronindex 794 tot...
Centrumindex 0:
        25 - 15.992481203007529 = 9.007518796992471
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872
-----
Centrumindex 1:
        25 - 54.156682027649765 = -29.156682027649765
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----
Centrumindex 2:
        25 - 31.63235294117647 = -6.632352941176471
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825

```

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}

2

=====

Afstand van bronindex 795 tot...

Centrumindex 0:

39 - 15.992481203007529 = 23.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 529.490092712985

Euclidische afstand: 23.01065172290835

Centrumindex 1:

39 - 54.156682027649765 = -15.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 229.85092059716692

Euclidische afstand: 15.160835089043312

Centrumindex 2:

39 - 31.63235294117647 = 7.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 54.4437956555171

Euclidische afstand: 7.378603909651005

{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}

2

=====

Afstand van bronindex 796 tot...

Centrumindex 0:

49 - 15.992481203007529 = 33.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1089.881070156594

Euclidische afstand: 33.01334684876094

Centrumindex 1:

49 - 54.156682027649765 = -5.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 27.00760262481679

Euclidische afstand: 5.1968839341298345

Centrumindex 2:

49 - 31.63235294117647 = 17.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 301.9928152633602

Euclidische afstand: 17.37794047818556

{0: 33.01334684876094, 1: 5.1968839341298345, 2: 17.37794047818556}

1

```

Afstand van bronindex 797 tot...
  Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 225.61039346486487
  Euclidische afstand: 15.020332668248892
-----
  Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 536.6481556202083
  Euclidische afstand: 23.165667605752446
-----
  Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 0.7575211457131878
  Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 798 tot...
  Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 196.35475436712053
  Euclidische afstand: 14.012664071015209
-----
  Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 583.6711970948627
  Euclidische afstand: 24.159288008856194
-----
  Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 2.8261485966935807
  Euclidische afstand: 1.681115283582176
-----
{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2
=====
Afstand van bronindex 799 tot...
  Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209

Centrumindex 1:

30 - 54.156682027649765 = -24.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194

Centrumindex 2:

30 - 31.63235294117647 = -1.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2

=====

Afstand van bronindex 800 tot...

Centrumindex 0:

34 - 15.992481203007529 = 18.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 324.41490474306033
Euclidische afstand: 18.011521444427185

Centrumindex 1:

34 - 54.156682027649765 = -20.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 406.4177408736646
Euclidische afstand: 20.159805080249775

Centrumindex 2:

34 - 31.63235294117647 = 2.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 5.767325067281813
Euclidische afstand: 2.401525570815729

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2

=====

Afstand van bronindex 801 tot...

Centrumindex 0:

31 - 15.992481203007529 = 15.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 225.61039346486487
Euclidische afstand: 15.020332668248892

Centrumindex 1:

```

31 - 54.156682027649765 = -23.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 536.6481556202083
Euclidische afstand: 23.165667605752446
-----
Centrumindex 2:
31 - 31.63235294117647 = -0.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 0.7575211457131878
Euclidische afstand: 0.8703569070865055
-----
{0: 15.020332668248892, 1: 23.165667605752446, 2: 0.8703569070865055}
2
=====
Afstand van bronindex 802 tot...
Centrumindex 0:
11 - 15.992481203007529 = -4.992481203007529
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 25.309641585166023
Euclidische afstand: 5.030868869804303
-----
Centrumindex 1:
11 - 54.156682027649765 = -43.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1862.915436726199
Euclidische afstand: 43.161504106393224
-----
Centrumindex 2:
11 - 31.63235294117647 = -20.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 426.05163879277205
Euclidische afstand: 20.641018356485517
-----
{0: 5.030868869804303, 1: 43.161504106393224, 2: 20.641018356485517}
0
=====
Afstand van bronindex 803 tot...
Centrumindex 0:
42 - 15.992481203007529 = 26.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597
-----
Centrumindex 1:
42 - 54.156682027649765 = -12.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654

```

```

-----
Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----
{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 804 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389
-----
{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 805 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```

```

Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 806 tot...
Centrumindex 0:
    39 - 15.992481203007529 = 23.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835
-----
Centrumindex 1:
    39 - 54.156682027649765 = -15.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----
Centrumindex 2:
    39 - 31.63235294117647 = 7.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----
{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 807 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----
{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}

```


0

=====

Afstand van bronindex 808 tot...

Centrumindex 0:

$$39 - 15.992481203007529 = 23.00751879699247$$

$$0 - 0.3796992481203007 = -0.3796992481203007$$

Totale euclidische som: 529.490092712985

Euclidische afstand: 23.01065172290835

Centrumindex 1:

$$39 - 54.156682027649765 = -15.156682027649765$$

$$0 - 0.3548387096774193 = -0.3548387096774193$$

Totale euclidische som: 229.85092059716692

Euclidische afstand: 15.160835089043312

Centrumindex 2:

$$39 - 31.63235294117647 = 7.367647058823529$$

$$0 - 0.4019607843137254 = -0.4019607843137254$$

Totale euclidische som: 54.4437956555171

Euclidische afstand: 7.378603909651005

{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}

2

=====

Afstand van bronindex 809 tot...

Centrumindex 0:

$$33 - 15.992481203007529 = 17.00751879699247$$

$$1 - 0.3796992481203007 = 0.6203007518796992$$

Totale euclidische som: 289.6404686528347

Euclidische afstand: 17.018826888268027

Centrumindex 1:

$$33 - 54.156682027649765 = -21.156682027649765$$

$$1 - 0.3548387096774193 = 0.6451612903225807$$

Totale euclidische som: 448.0214275096093

Euclidische afstand: 21.166516659800433

Centrumindex 2:

$$33 - 31.63235294117647 = 1.367647058823529$$

$$1 - 0.4019607843137254 = 0.5980392156862746$$

Totale euclidische som: 2.228109381007304

Euclidische afstand: 1.492685292018148

{0: 17.018826888268027, 1: 21.166516659800433, 2: 1.492685292018148}

2

=====

Afstand van bronindex 810 tot...

Centrumindex 0:

$26 - 15.992481203007529 = 10.007518796992471$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 100.29460399118075
 Euclidische afstand: 10.014719366571425

 Centrumindex 1:
 $26 - 54.156682027649765 = -28.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 792.9246533160608
 Euclidische afstand: 28.15891782927854

 Centrumindex 2:
 $26 - 31.63235294117647 = -5.632352941176471$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 31.88497212610535
 Euclidische afstand: 5.646677972587542

 {0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
 2

=====
 Afstand van bronindex 811 tot...

Centrumindex 0:
 $39 - 15.992481203007529 = 23.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 529.490092712985
 Euclidische afstand: 23.01065172290835

 Centrumindex 1:
 $39 - 54.156682027649765 = -15.156682027649765$
 $0 - 0.3548387096774193 = -0.3548387096774193$
 Totale euclidische som: 229.85092059716692
 Euclidische afstand: 15.160835089043312

 Centrumindex 2:
 $39 - 31.63235294117647 = 7.367647058823529$
 $0 - 0.4019607843137254 = -0.4019607843137254$
 Totale euclidische som: 54.4437956555171
 Euclidische afstand: 7.378603909651005

 {0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
 2

=====
 Afstand van bronindex 812 tot...

Centrumindex 0:
 $35 - 15.992481203007529 = 19.00751879699247$
 $0 - 0.3796992481203007 = -0.3796992481203007$
 Totale euclidische som: 361.42994233704525
 Euclidische afstand: 19.01131090527545

```

-----
Centrumindex 1:
    35 - 54.156682027649765 = -19.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 367.1043768183651
Euclidische afstand: 19.15996807978461
-----

Centrumindex 2:
    35 - 31.63235294117647 = 3.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 11.50261918492887
Euclidische afstand: 3.391551147326083
-----

{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2
=====
Afstand van bronindex 813 tot...
Centrumindex 0:
    6 - 15.992481203007529 = -9.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 99.9938521114819
Euclidische afstand: 9.999692600849382
-----

Centrumindex 1:
    6 - 54.156682027649765 = -48.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2319.1919344220514
Euclidische afstand: 48.15798931041506
-----

Centrumindex 2:
    6 - 31.63235294117647 = -25.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 657.1790897731642
Euclidische afstand: 25.635504476666032
-----

{0: 9.999692600849382, 1: 48.15798931041506, 2: 25.635504476666032}
0
=====
Afstand van bronindex 814 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 196.35475436712053
Euclidische afstand: 14.012664071015209
-----

Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

Totale euclidische som: 583.6711970948627
Euclidische afstand: 24.159288008856194

Centrumindex 2:
30 - 31.63235294117647 = -1.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.8261485966935807
Euclidische afstand: 1.681115283582176

{0: 14.012664071015209, 1: 24.159288008856194, 2: 1.681115283582176}
2

Afstand van bronindex 815 tot...

Centrumindex 0:
61 - 15.992481203007529 = 45.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736

Centrumindex 1:
61 - 54.156682027649765 = 6.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332

Centrumindex 2:
61 - 31.63235294117647 = 29.36764705882353
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319

{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1

Afstand van bronindex 816 tot...

Centrumindex 0:
23 - 15.992481203007529 = 7.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.24949120922594
Euclidische afstand: 7.017798173873764

Centrumindex 1:
23 - 54.156682027649765 = -31.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 970.8647454819594
Euclidische afstand: 31.158702564162702

Centrumindex 2:

```

                23 - 31.63235294117647 = -8.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 74.67908977316418
Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
=====
Afstand van bronindex 817 tot...
Centrumindex 0:
    31 - 15.992481203007529 = 15.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 225.36979196110548
Euclidische afstand: 15.012321338191022
-----
Centrumindex 1:
    31 - 54.156682027649765 = -23.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 536.3578330395632
Euclidische afstand: 23.159400532819564
-----
Centrumindex 2:
    31 - 31.63235294117647 = -0.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.5614427143406386
Euclidische afstand: 0.7492948113664198
-----
{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====
Afstand van bronindex 818 tot...
Centrumindex 0:
    43 - 15.992481203007529 = 27.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 729.5502430889247
Euclidische afstand: 27.010187764784693
-----
Centrumindex 1:
    43 - 54.156682027649765 = -11.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 124.59746437596881
Euclidische afstand: 11.162323430897745
-----
Centrumindex 2:
    43 - 31.63235294117647 = 11.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 129.38497212610534
Euclidische afstand: 11.374751519312646

```

{0: 27.010187764784693, 1: 11.162323430897745, 2: 11.374751519312646}
1
=====

Afstand van bronindex 819 tot...

Centrumindex 0:

10 - 15.992481203007529 = -5.992481203007529

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 36.054002487421684

Euclidische afstand: 6.004498520894288

Centrumindex 1:

10 - 54.156682027649765 = -44.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1949.9384782008533

Euclidische afstand: 44.15810772894207

Centrumindex 2:

10 - 31.63235294117647 = -21.63235294117647

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 468.12026624375244

Euclidische afstand: 21.63608712877059

{0: 6.004498520894288, 1: 44.15810772894207, 2: 21.63608712877059}
0
=====

Afstand van bronindex 820 tot...

Centrumindex 0:

52 - 15.992481203007529 = 36.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1296.9261829385487

Euclidische afstand: 36.01286135450152

Centrumindex 1:

52 - 54.156682027649765 = -2.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 5.0675104589182

Euclidische afstand: 2.2511131599540257

Centrumindex 2:

52 - 31.63235294117647 = 20.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 415.19869761630144

Euclidische afstand: 20.376425045044126

{0: 36.01286135450152, 1: 2.2511131599540257, 2: 20.376425045044126}
1
=====

```

Afstand van bronindex 821 tot...
  Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 121.5502430889251
  Euclidische afstand: 11.02498267975624
-----
  Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 737.9016118414064
  Euclidische afstand: 27.16434449496999
-----
  Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 21.816344675124956
  Euclidische afstand: 4.67079700641389
-----
{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====
Afstand van bronindex 822 tot...
  Centrumindex 0:
    38 - 15.992481203007529 = 22.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 484.4750551190001
  Euclidische afstand: 22.010794059256476
-----
  Centrumindex 1:
    38 - 54.156682027649765 = -16.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 261.1642846524665
  Euclidische afstand: 16.160578103906634
-----
  Centrumindex 2:
    38 - 31.63235294117647 = 6.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 40.70850153787004
  Euclidische afstand: 6.380321429040237
-----
{0: 22.010794059256476, 1: 16.160578103906634, 2: 6.380321429040237}
2
=====
Afstand van bronindex 823 tot...
  Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624

Centrumindex 1:

27 - 54.156682027649765 = -27.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999

Centrumindex 2:

27 - 31.63235294117647 = -4.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2

Afstand van bronindex 824 tot...

Centrumindex 0:

2 - 15.992481203007529 = -13.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 195.93370173554214
Euclidische afstand: 13.997632004576422

Centrumindex 1:

2 - 54.156682027649765 = -52.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 2720.4453906432495
Euclidische afstand: 52.1578890547082

Centrumindex 2:

2 - 31.63235294117647 = -29.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 878.237913302576
Euclidische afstand: 29.63507910066339

{0: 13.997632004576422, 1: 52.1578890547082, 2: 29.63507910066339}
0

Afstand van bronindex 825 tot...

Centrumindex 0:

61 - 15.992481203007529 = 45.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736

Centrumindex 1:


```

        61 - 54.156682027649765 = 6.843317972350235
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332
-----

Centrumindex 2:
        61 - 31.63235294117647 = 29.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319
-----

{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1
=====
Afstand van bronindex 826 tot...
Centrumindex 0:
        61 - 15.992481203007529 = 45.00751879699247
        0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 2025.8209197806536
Euclidische afstand: 45.009120406653736
-----

Centrumindex 1:
        61 - 54.156682027649765 = 6.843317972350235
        0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 46.95691138057727
Euclidische afstand: 6.852511319259332
-----

Centrumindex 2:
        61 - 31.63235294117647 = 29.36764705882353
        0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 862.6202662437523
Euclidische afstand: 29.37039778831319
-----

{0: 45.009120406653736, 1: 6.852511319259332, 2: 29.37039778831319}
1
=====
Afstand van bronindex 827 tot...
Centrumindex 0:
        1 - 15.992481203007529 = -14.992481203007529
        1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 225.1592656453166
Euclidische afstand: 15.00530791571158
-----

Centrumindex 1:
        1 - 54.156682027649765 = -53.156682027649765
        1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 2826.049077279194
Euclidische afstand: 53.16059703651939

```

```

-----
Centrumindex 2:
    1 - 31.63235294117647 = -30.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 938.6986976163015
Euclidische afstand: 30.63819018180254
-----
{0: 15.00530791571158, 1: 53.16059703651939, 2: 30.63819018180254}
0
=====
Afstand van bronindex 828 tot...
Centrumindex 0:
    61 - 15.992481203007529 = 45.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 2026.0615212844132
Euclidische afstand: 45.011793135626284
-----
Centrumindex 1:
    61 - 54.156682027649765 = 6.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 47.24723396122243
Euclidische afstand: 6.87366233977364
-----
Centrumindex 2:
    61 - 31.63235294117647 = 29.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 862.8163446751249
Euclidische afstand: 29.373735626833795
-----
{0: 45.011793135626284, 1: 6.87366233977364, 2: 29.373735626833795}
1
=====
Afstand van bronindex 829 tot...
Centrumindex 0:
    62 - 15.992481203007529 = 46.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 2117.0765588783984
Euclidische afstand: 46.011700238943554
-----
Centrumindex 1:
    62 - 54.156682027649765 = 7.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 61.9338699059229
Euclidische afstand: 7.869807488491881
-----
Centrumindex 2:
    62 - 31.63235294117647 = 30.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 922.551638792772
Euclidische afstand: 30.37353517114483
-----
{0: 46.011700238943554, 1: 7.869807488491881, 2: 30.37353517114483}
1
=====
Afstand van bronindex 830 tot...
  Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 1.3697919611057916
  Euclidische afstand: 1.1703811178867298
-----
  Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 1533.6619805050009
  Euclidische afstand: 39.16199663583307
-----
  Centrumindex 2:
    15 - 31.63235294117647 = -16.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 276.9928152633603
  Euclidische afstand: 16.643101131200286
-----
{0: 1.1703811178867298, 1: 39.16199663583307, 2: 16.643101131200286}
0
=====
Afstand van bronindex 831 tot...
  Centrumindex 0:
    83 - 15.992481203007529 = 67.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 4490.392348352082
  Euclidische afstand: 67.01038985375389
-----
  Centrumindex 1:
    83 - 54.156682027649765 = 28.843317972350235
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 832.3532247446327
  Euclidische afstand: 28.8505324863274
-----
  Centrumindex 2:
    83 - 31.63235294117647 = 51.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 2638.99281526336
  Euclidische afstand: 51.37112822649859
-----
{0: 67.01038985375389, 1: 28.8505324863274, 2: 51.37112822649859}

```

1

```
=====
Afstand van bronindex 832 tot...
  Centrumindex 0:
    13 - 15.992481203007529 = -2.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 9.099115269376508
  Euclidische afstand: 3.0164739795623148
-----
  Centrumindex 1:
    13 - 54.156682027649765 = -41.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1693.9983860349546
  Euclidische afstand: 41.15821164767676
-----
  Centrumindex 2:
    13 - 31.63235294117647 = -18.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 347.3261485966936
  Euclidische afstand: 18.636688241119817
-----
{0: 3.0164739795623148, 1: 41.15821164767676, 2: 18.636688241119817}
0
```

```
=====
Afstand van bronindex 833 tot...
  Centrumindex 0:
    23 - 15.992481203007529 = 7.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 49.24949120922594
  Euclidische afstand: 7.017798173873764
-----
  Centrumindex 1:
    23 - 54.156682027649765 = -31.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 970.8647454819594
  Euclidische afstand: 31.158702564162702
-----
  Centrumindex 2:
    23 - 31.63235294117647 = -8.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 74.67908977316418
  Euclidische afstand: 8.641706415585071
-----
{0: 7.017798173873764, 1: 31.158702564162702, 2: 8.641706415585071}
0
```

```
=====
Afstand van bronindex 834 tot...
  Centrumindex 0:
```

```

18 - 15.992481203007529 = 2.0075187969924713
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 4.174303239301221
Euclidische afstand: 2.0431111666527646
-----

Centrumindex 1:
18 - 54.156682027649765 = -36.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1307.431565758457
Euclidische afstand: 36.15842316471305
-----

Centrumindex 2:
18 - 31.63235294117647 = -13.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 186.00261918492888
Euclidische afstand: 13.638277720626196
-----

{0: 2.0431111666527646, 1: 36.15842316471305, 2: 13.638277720626196}
0
=====
Afstand van bronindex 835 tot...
Centrumindex 0:
39 - 15.992481203007529 = 23.00751879699247
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 529.7306942167444
Euclidische afstand: 23.01587917540289
-----

Centrumindex 1:
39 - 54.156682027649765 = -15.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 230.1412431778121
Euclidische afstand: 15.170406823081974
-----

Centrumindex 2:
39 - 31.63235294117647 = 7.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 54.63987408688965
Euclidische afstand: 7.391878928045943
-----

{0: 23.01587917540289, 1: 15.170406823081974, 2: 7.391878928045943}
2
=====
Afstand van bronindex 836 tot...
Centrumindex 0:
21 - 15.992481203007529 = 5.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025

```

```

-----
Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----

Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 837 tot...
Centrumindex 0:
    13 - 15.992481203007529 = -2.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.099115269376508
Euclidische afstand: 3.0164739795623148
-----

Centrumindex 1:
    13 - 54.156682027649765 = -41.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1693.9983860349546
Euclidische afstand: 41.15821164767676
-----

Centrumindex 2:
    13 - 31.63235294117647 = -18.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 347.3261485966936
Euclidische afstand: 18.636688241119817
-----

{0: 3.0164739795623148, 1: 41.15821164767676, 2: 18.636688241119817}
0
=====
Afstand van bronindex 838 tot...
Centrumindex 0:
    32 - 15.992481203007529 = 16.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 256.6254310588498
Euclidische afstand: 16.01953279777066
-----

Centrumindex 1:
    32 - 54.156682027649765 = -22.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 491.3347915649088
Euclidische afstand: 22.166072984741994

Centrumindex 2:

32 - 31.63235294117647 = 0.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 0.49281526336024584

Euclidische afstand: 0.7020080222905191

{0: 16.01953279777066, 1: 22.166072984741994, 2: 0.7020080222905191}
2

=====

Afstand van bronindex 839 tot...

Centrumindex 0:

13 - 15.992481203007529 = -2.9924812030075287

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 9.339716773135907

Euclidische afstand: 3.0560950203054724

Centrumindex 1:

13 - 54.156682027649765 = -41.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 1694.2887086156

Euclidische afstand: 41.161738406141204

Centrumindex 2:

13 - 31.63235294117647 = -18.63235294117647

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 347.52222702806614

Euclidische afstand: 18.64194804810018

{0: 3.0560950203054724, 1: 41.161738406141204, 2: 18.64194804810018}
0

=====

Afstand van bronindex 840 tot...

Centrumindex 0:

20 - 15.992481203007529 = 4.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 16.204378427271106

Euclidische afstand: 4.025466237253904

Centrumindex 1:

20 - 54.156682027649765 = -34.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1166.804837647858

Euclidische afstand: 34.158525109375816

Centrumindex 2:

```

                20 - 31.63235294117647 = -11.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 841 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 0.14422805133133568
Euclidische afstand: 0.3797736843586397
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1456.0582938690561
Euclidische afstand: 38.15833190626991
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 244.53203094963476
Euclidische afstand: 15.637519974396028
-----
{0: 0.3797736843586397, 1: 38.15833190626991, 2: 15.637519974396028}
0
=====
Afstand van bronindex 842 tot...
Centrumindex 0:
    30 - 15.992481203007529 = 14.007518796992471
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 196.59535587087993
Euclidische afstand: 14.021246587621228
-----
Centrumindex 1:
    30 - 54.156682027649765 = -24.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 583.9615196755078
Euclidische afstand: 24.16529577049509
-----
Centrumindex 2:
    30 - 31.63235294117647 = -1.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 3.02222702806613
Euclidische afstand: 1.738455356937914

```

{0: 14.021246587621228, 1: 24.16529577049509, 2: 1.738455356937914}
2
=====

Afstand van bronindex 843 tot...

Centrumindex 0:

34 - 15.992481203007529 = 18.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 324.41490474306033

Euclidische afstand: 18.011521444427185

Centrumindex 1:

34 - 54.156682027649765 = -20.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 406.4177408736646

Euclidische afstand: 20.159805080249775

Centrumindex 2:

34 - 31.63235294117647 = 2.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 5.767325067281813

Euclidische afstand: 2.401525570815729

{0: 18.011521444427185, 1: 20.159805080249775, 2: 2.401525570815729}
2
=====

Afstand van bronindex 844 tot...

Centrumindex 0:

17 - 15.992481203007529 = 1.0075187969924713

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1.1592656453162782

Euclidische afstand: 1.0766919918510949

Centrumindex 1:

17 - 54.156682027649765 = -37.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1380.7449298137565

Euclidische afstand: 37.158376307553546

Centrumindex 2:

17 - 31.63235294117647 = -14.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 214.26732506728183

Euclidische afstand: 14.637872969365523

{0: 1.0766919918510949, 1: 37.158376307553546, 2: 14.637872969365523}
0
=====

```

Afstand van bronindex 845 tot...
  Centrumindex 0:
    42 - 15.992481203007529 = 26.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 676.5352054949398
  Euclidische afstand: 26.010290376982333
-----
  Centrumindex 1:
    42 - 54.156682027649765 = -12.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 147.91082843126833
  Euclidische afstand: 12.161859579491466
-----
  Centrumindex 2:
    42 - 31.63235294117647 = 10.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 107.64967800845828
  Euclidische afstand: 10.375436280391215
-----
{0: 26.010290376982333, 1: 12.161859579491466, 2: 10.375436280391215}
2
=====
Afstand van bronindex 846 tot...
  Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 1.1291904573463931
  Euclidische afstand: 1.0626337362169493
-----
  Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 1533.3716579243555
  Euclidische afstand: 39.15828977272061
-----
  Centrumindex 2:
    15 - 31.63235294117647 = -16.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 276.79673683198774
  Euclidische afstand: 16.63720940638747
-----
{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
=====
Afstand van bronindex 847 tot...
  Centrumindex 0:
    35 - 15.992481203007529 = 19.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007

```

Totale euclidische som: 361.42994233704525
Euclidische afstand: 19.01131090527545

Centrumindex 1:

35 - 54.156682027649765 = -19.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 367.1043768183651
Euclidische afstand: 19.15996807978461

Centrumindex 2:

35 - 31.63235294117647 = 3.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 11.50261918492887
Euclidische afstand: 3.391551147326083

{0: 19.01131090527545, 1: 19.15996807978461, 2: 3.391551147326083}
2

=====

Afstand van bronindex 848 tot...

Centrumindex 0:

28 - 15.992481203007529 = 12.007518796992471
0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097

Centrumindex 1:

28 - 54.156682027649765 = -26.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376

Centrumindex 2:

28 - 31.63235294117647 = -3.632352941176471
0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2

=====

Afstand van bronindex 849 tot...

Centrumindex 0:

15 - 15.992481203007529 = -0.9924812030075287
1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1.3697919611057916
Euclidische afstand: 1.1703811178867298

Centrumindex 1:

```

15 - 54.156682027649765 = -39.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1533.6619805050009
Euclidische afstand: 39.16199663583307
-----

Centrumindex 2:
15 - 31.63235294117647 = -16.63235294117647
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 276.9928152633603
Euclidische afstand: 16.643101131200286
-----

{0: 1.1703811178867298, 1: 39.16199663583307, 2: 16.643101131200286}
0
=====
Afstand van bronindex 850 tot...
Centrumindex 0:
4 - 15.992481203007529 = -11.992481203007529
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 143.96377692351203
Euclidische afstand: 11.998490610218939
-----

Centrumindex 1:
4 - 54.156682027649765 = -50.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2515.8186625326507
Euclidische afstand: 50.15793718378628
-----

Centrumindex 2:
4 - 31.63235294117647 = -27.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 763.70850153787
Euclidische afstand: 27.63527639698706
-----

{0: 11.998490610218939, 1: 50.15793718378628, 2: 27.63527639698706}
0
=====
Afstand van bronindex 851 tot...
Centrumindex 0:
74 - 15.992481203007529 = 58.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 3365.016408502458
Euclidische afstand: 58.00876148050791
-----

Centrumindex 1:
74 - 54.156682027649765 = 19.843317972350235
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 393.8831786616834
Euclidische afstand: 19.84649033611947

```

```

-----
Centrumindex 2:
    74 - 31.63235294117647 = 42.36764705882353
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 1795.1790897731642
Euclidische afstand: 42.36955380663294
-----
{0: 58.00876148050791, 1: 19.84649033611947, 2: 42.36955380663294}
1
=====
Afstand van bronindex 852 tot...
Centrumindex 0:
    9 - 15.992481203007529 = -6.992481203007529
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 49.03896489343674
Euclidische afstand: 7.002782653591124
-----
Centrumindex 1:
    9 - 54.156682027649765 = -45.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 2039.2518422561527
Euclidische afstand: 45.158076157606104
-----
Centrumindex 2:
    9 - 31.63235294117647 = -22.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 512.3849721261054
Euclidische afstand: 22.635922162043794
-----
{0: 7.002782653591124, 1: 45.158076157606104, 2: 22.635922162043794}
0
=====
Afstand van bronindex 853 tot...
Centrumindex 0:
    16 - 15.992481203007529 = 0.007518796992471266
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 0.3848295550907342
Euclidische afstand: 0.6203463186726703
-----
Centrumindex 1:
    16 - 54.156682027649765 = -38.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1456.3486164497015
Euclidische afstand: 38.162135899995185
-----
Centrumindex 2:
    16 - 31.63235294117647 = -15.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746

```

```

Totale euclidische som: 244.72810938100733
Euclidische afstand: 15.643788204300368
-----
{0: 0.6203463186726703, 1: 38.162135899995185, 2: 15.643788204300368}
0
=====
Afstand van bronindex 854 tot...
Centrumindex 0:
    44 - 15.992481203007529 = 28.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 784.5652806829097
Euclidische afstand: 28.010092479013878
-----
Centrumindex 1:
    44 - 54.156682027649765 = -10.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 103.28410032066928
Euclidische afstand: 10.1628785450122
-----
Centrumindex 2:
    44 - 31.63235294117647 = 12.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 153.12026624375238
Euclidische afstand: 12.37417739664954
-----
{0: 28.010092479013878, 1: 10.1628785450122, 2: 12.37417739664954}
1
=====
Afstand van bronindex 855 tot...
Centrumindex 0:
    18 - 15.992481203007529 = 2.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 4.414904743060619
Euclidische afstand: 2.1011674714454864
-----
Centrumindex 1:
    18 - 54.156682027649765 = -36.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1307.7218883391024
Euclidische afstand: 36.16243753315175
-----
Centrumindex 2:
    18 - 31.63235294117647 = -13.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 186.19869761630144
Euclidische afstand: 13.645464360596215
-----
{0: 2.1011674714454864, 1: 36.16243753315175, 2: 13.645464360596215}

```

0

=====

Afstand van bronindex 856 tot...

Centrumindex 0:

45 - 15.992481203007529 = 29.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 841.8209197806541

Euclidische afstand: 29.0141503370451

Centrumindex 1:

45 - 54.156682027649765 = -9.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 84.2610588460149

Euclidische afstand: 9.179382269304122

Centrumindex 2:

45 - 31.63235294117647 = 13.367647058823529

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 179.05163879277202

Euclidische afstand: 13.381017853391125

{0: 29.0141503370451, 1: 9.179382269304122, 2: 13.381017853391125}

1

=====

Afstand van bronindex 857 tot...

Centrumindex 0:

51 - 15.992481203007529 = 35.00751879699247

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 1225.911145344564

Euclidische afstand: 35.01301394259803

Centrumindex 1:

51 - 54.156682027649765 = -3.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 10.38087451421773

Euclidische afstand: 3.221936454093676

Centrumindex 2:

51 - 31.63235294117647 = 19.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 375.4634034986544

Euclidische afstand: 19.37687806378144

{0: 35.01301394259803, 1: 3.221936454093676, 2: 19.37687806378144}

1

=====

Afstand van bronindex 858 tot...

Centrumindex 0:

```

                24 - 15.992481203007529 = 8.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 64.50513030697027
Euclidische afstand: 8.031508594714337
-----

Centrumindex 1:
                24 - 54.156682027649765 = -30.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 909.841704007305
Euclidische afstand: 30.163582413355762
-----

Centrumindex 2:
                24 - 31.63235294117647 = -7.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 58.61046232218378
Euclidische afstand: 7.655747012681635
-----

{0: 8.031508594714337, 1: 30.163582413355762, 2: 7.655747012681635}
2
=====
Afstand van bronindex 859 tot...
Centrumindex 0:
                15 - 15.992481203007529 = -0.9924812030075287
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1291904573463931
Euclidische afstand: 1.0626337362169493
-----

Centrumindex 1:
                15 - 54.156682027649765 = -39.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1533.3716579243555
Euclidische afstand: 39.15828977272061
-----

Centrumindex 2:
                15 - 31.63235294117647 = -16.63235294117647
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 276.79673683198774
Euclidische afstand: 16.63720940638747
-----

{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
=====
Afstand van bronindex 860 tot...
Centrumindex 0:
                41 - 15.992481203007529 = 25.00751879699247
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 625.5201679009549
Euclidische afstand: 25.01040119432223

```



```

-----
Centrumindex 1:
    41 - 54.156682027649765 = -13.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 173.22419248656786
Euclidische afstand: 13.161466198207853
-----

Centrumindex 2:
    41 - 31.63235294117647 = 9.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 87.91438389081122
Euclidische afstand: 9.376267055220389
-----

{0: 25.01040119432223, 1: 13.161466198207853, 2: 9.376267055220389}
2
=====
Afstand van bronindex 861 tot...
Centrumindex 0:
    21 - 15.992481203007529 = 5.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 25.21941602125605
Euclidische afstand: 5.021893668852025
-----

Centrumindex 1:
    21 - 54.156682027649765 = -33.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1099.4914735925583
Euclidische afstand: 33.15858069327694
-----

Centrumindex 2:
    21 - 31.63235294117647 = -10.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 113.20850153787006
Euclidische afstand: 10.639948380413792
-----

{0: 5.021893668852025, 1: 33.15858069327694, 2: 10.639948380413792}
0
=====
Afstand van bronindex 862 tot...
Centrumindex 0:
    48 - 15.992481203007529 = 32.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1024.866032562609
Euclidische afstand: 32.01352889892973
-----

Centrumindex 1:
    48 - 54.156682027649765 = -6.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807

```

Totale euclidische som: 38.32096668011632
Euclidische afstand: 6.190393095766724

Centrumindex 2:

48 - 31.63235294117647 = 16.36764705882353

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 268.2575211457132

Euclidische afstand: 16.37856895903037

{0: 32.01352889892973, 1: 6.190393095766724, 2: 16.37856895903037}

1

=====

Afstand van bronindex 863 tot...

Centrumindex 0:

15 - 15.992481203007529 = -0.9924812030075287

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1.1291904573463931

Euclidische afstand: 1.0626337362169493

Centrumindex 1:

15 - 54.156682027649765 = -39.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1533.3716579243555

Euclidische afstand: 39.15828977272061

Centrumindex 2:

15 - 31.63235294117647 = -16.63235294117647

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 276.79673683198774

Euclidische afstand: 16.63720940638747

{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}

0

=====

Afstand van bronindex 864 tot...

Centrumindex 0:

24 - 15.992481203007529 = 8.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 64.26452880321087

Euclidische afstand: 8.016516001556466

Centrumindex 1:

24 - 54.156682027649765 = -30.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 909.5513814266599

Euclidische afstand: 30.158769560886597

Centrumindex 2:

```

                24 - 31.63235294117647 = -7.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 58.41438389081123
Euclidische afstand: 7.642930320944397
-----
{0: 8.016516001556466, 1: 30.158769560886597, 2: 7.642930320944397}
2
=====
Afstand van bronindex 865 tot...
Centrumindex 0:
                42 - 15.992481203007529 = 26.00751879699247
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 676.7758069986992
Euclidische afstand: 26.01491508728597
-----
Centrumindex 1:
                42 - 54.156682027649765 = -12.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 148.2011510119135
Euclidische afstand: 12.173789509101654
-----
Centrumindex 2:
                42 - 31.63235294117647 = 10.367647058823529
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 107.84575643983082
Euclidische afstand: 10.38488114712108
-----
{0: 26.01491508728597, 1: 12.173789509101654, 2: 10.38488114712108}
2
=====
Afstand van bronindex 866 tot...
Centrumindex 0:
                27 - 15.992481203007529 = 11.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 121.5502430889251
Euclidische afstand: 11.02498267975624
-----
Centrumindex 1:
                27 - 54.156682027649765 = -27.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 737.9016118414064
Euclidische afstand: 27.16434449496999
-----
Centrumindex 2:
                27 - 31.63235294117647 = -4.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 21.816344675124956
Euclidische afstand: 4.67079700641389

```

{0: 11.02498267975624, 1: 27.16434449496999, 2: 4.67079700641389}
2
=====

Afstand van bronindex 867 tot...

Centrumindex 0:

31 - 15.992481203007529 = 15.007518796992471

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 225.36979196110548

Euclidische afstand: 15.012321338191022

Centrumindex 1:

31 - 54.156682027649765 = -23.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 536.3578330395632

Euclidische afstand: 23.159400532819564

Centrumindex 2:

31 - 31.63235294117647 = -0.632352941176471

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 0.5614427143406386

Euclidische afstand: 0.7492948113664198

{0: 15.012321338191022, 1: 23.159400532819564, 2: 0.7492948113664198}
2
=====

Afstand van bronindex 868 tot...

Centrumindex 0:

15 - 15.992481203007529 = -0.9924812030075287

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 1.1291904573463931

Euclidische afstand: 1.0626337362169493

Centrumindex 1:

15 - 54.156682027649765 = -39.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 1533.3716579243555

Euclidische afstand: 39.15828977272061

Centrumindex 2:

15 - 31.63235294117647 = -16.63235294117647

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 276.79673683198774

Euclidische afstand: 16.63720940638747

{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
=====

```

Afstand van bronindex 869 tot...
  Centrumindex 0:
    4 - 15.992481203007529 = -11.992481203007529
    1 - 0.3796992481203007 = 0.6203007518796992
  Totale euclidische som: 144.20437842727142
  Euclidische afstand: 12.008512748349457
-----
  Centrumindex 1:
    4 - 54.156682027649765 = -50.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
  Totale euclidische som: 2516.1089851132956
  Euclidische afstand: 50.160831184434095
-----
  Centrumindex 2:
    4 - 31.63235294117647 = -27.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
  Totale euclidische som: 763.9045799692426
  Euclidische afstand: 27.63882378049476
-----
{0: 12.008512748349457, 1: 50.160831184434095, 2: 27.63882378049476}
0
=====
Afstand van bronindex 870 tot...
  Centrumindex 0:
    26 - 15.992481203007529 = 10.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
  Totale euclidische som: 100.29460399118075
  Euclidische afstand: 10.014719366571425
-----
  Centrumindex 1:
    26 - 54.156682027649765 = -28.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
  Totale euclidische som: 792.9246533160608
  Euclidische afstand: 28.15891782927854
-----
  Centrumindex 2:
    26 - 31.63235294117647 = -5.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
  Totale euclidische som: 31.88497212610535
  Euclidische afstand: 5.646677972587542
-----
{0: 10.014719366571425, 1: 28.15891782927854, 2: 5.646677972587542}
2
=====
Afstand van bronindex 871 tot...
  Centrumindex 0:
    47 - 15.992481203007529 = 31.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992

```

Totale euclidische som: 961.8509949686239
Euclidische afstand: 31.013722688007384

Centrumindex 1:
47 - 54.156682027649765 = -7.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 51.63433073541585
Euclidische afstand: 7.185703217877555

Centrumindex 2:
47 - 31.63235294117647 = 15.367647058823529
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 236.52222702806614
Euclidische afstand: 15.379279145267704

{0: 31.013722688007384, 1: 7.185703217877555, 2: 15.379279145267704}
1

=====

Afstand van bronindex 872 tot...

Centrumindex 0:
33 - 15.992481203007529 = 17.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 289.39986714907536
Euclidische afstand: 17.011756733185297

Centrumindex 1:
33 - 54.156682027649765 = -21.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 447.73110492896416
Euclidische afstand: 21.15965748609755

Centrumindex 2:
33 - 31.63235294117647 = 1.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 2.0320309496347546
Euclidische afstand: 1.4254932303012717

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}
2

=====

Afstand van bronindex 873 tot...

Centrumindex 0:
47 - 15.992481203007529 = 31.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 961.6103934648645
Euclidische afstand: 31.00984349307272

Centrumindex 1:

```

                47 - 54.156682027649765 = -7.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 51.34400815477069
Euclidische afstand: 7.165473337803351
-----

Centrumindex 2:
                47 - 31.63235294117647 = 15.367647058823529
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 236.32614859669357
Euclidische afstand: 15.372903063400015
-----

{0: 31.00984349307272, 1: 7.165473337803351, 2: 15.372903063400015}
1
=====
Afstand van bronindex 874 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 144.56528068291004
Euclidische afstand: 12.023530292011163
-----

Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 684.5882477861069
Euclidische afstand: 26.164637352466915
-----

Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 13.551638792772014
Euclidische afstand: 3.6812550567397544
-----

{0: 12.023530292011163, 1: 26.164637352466915, 2: 3.6812550567397544}
2
=====
Afstand van bronindex 875 tot...
Centrumindex 0:
                15 - 15.992481203007529 = -0.9924812030075287
                1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1.3697919611057916
Euclidische afstand: 1.1703811178867298
-----

Centrumindex 1:
                15 - 54.156682027649765 = -39.156682027649765
                1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1533.6619805050009
Euclidische afstand: 39.16199663583307

```

```

-----
Centrumindex 2:
    15 - 31.63235294117647 = -16.63235294117647
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 276.9928152633603
Euclidische afstand: 16.643101131200286
-----
{0: 1.1703811178867298, 1: 39.16199663583307, 2: 16.643101131200286}
0
=====
Afstand van bronindex 876 tot...
Centrumindex 0:
    20 - 15.992481203007529 = 4.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 16.204378427271106
Euclidische afstand: 4.025466237253904
-----
Centrumindex 1:
    20 - 54.156682027649765 = -34.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1166.804837647858
Euclidische afstand: 34.158525109375816
-----
Centrumindex 2:
    20 - 31.63235294117647 = -11.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 135.473207420223
Euclidische afstand: 11.639295830084524
-----
{0: 4.025466237253904, 1: 34.158525109375816, 2: 11.639295830084524}
0
=====
Afstand van bronindex 877 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 9.189340833286163
Euclidische afstand: 3.031392556777522
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1236.1182017031574
Euclidische afstand: 35.15847268729342
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254

```



```

Totale euclidische som: 159.73791330257595
Euclidische afstand: 12.638746508359757
-----
{0: 3.031392556777522, 1: 35.15847268729342, 2: 12.638746508359757}
0
=====
Afstand van bronindex 878 tot...
Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1291904573463931
Euclidische afstand: 1.0626337362169493
-----
Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1533.3716579243555
Euclidische afstand: 39.15828977272061
-----
Centrumindex 2:
    15 - 31.63235294117647 = -16.63235294117647
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 276.79673683198774
Euclidische afstand: 16.63720940638747
-----
{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
=====
Afstand van bronindex 879 tot...
Centrumindex 0:
    56 - 15.992481203007529 = 40.00751879699247
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 1600.9863333144885
Euclidische afstand: 40.01232726691224
-----
Centrumindex 1:
    56 - 54.156682027649765 = 1.8433179723502349
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 3.8140542377200783
Euclidische afstand: 1.95296037791863
-----
Centrumindex 2:
    56 - 31.63235294117647 = 24.36764705882353
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 594.1398740868897
Euclidische afstand: 24.37498459664928
-----
{0: 40.01232726691224, 1: 1.95296037791863, 2: 24.37498459664928}

```

1

=====

Afstand van bronindex 880 tot...

Centrumindex 0:

25 - 15.992481203007529 = 9.007518796992471

1 - 0.3796992481203007 = 0.6203007518796992

Totale euclidische som: 81.52016790095522

Euclidische afstand: 9.028851970264837

Centrumindex 1:

25 - 54.156682027649765 = -29.156682027649765

1 - 0.3548387096774193 = 0.6451612903225807

Totale euclidische som: 850.5283399520055

Euclidische afstand: 29.1638190220692

Centrumindex 2:

25 - 31.63235294117647 = -6.632352941176471

1 - 0.4019607843137254 = 0.5980392156862746

Totale euclidische som: 44.345756439830836

Euclidische afstand: 6.659260952976001

{0: 9.028851970264837, 1: 29.1638190220692, 2: 6.659260952976001}

2

=====

Afstand van bronindex 881 tot...

Centrumindex 0:

33 - 15.992481203007529 = 17.00751879699247

0 - 0.3796992481203007 = -0.3796992481203007

Totale euclidische som: 289.39986714907536

Euclidische afstand: 17.011756733185297

Centrumindex 1:

33 - 54.156682027649765 = -21.156682027649765

0 - 0.3548387096774193 = -0.3548387096774193

Totale euclidische som: 447.73110492896416

Euclidische afstand: 21.15965748609755

Centrumindex 2:

33 - 31.63235294117647 = 1.367647058823529

0 - 0.4019607843137254 = -0.4019607843137254

Totale euclidische som: 2.0320309496347546

Euclidische afstand: 1.4254932303012717

{0: 17.011756733185297, 1: 21.15965748609755, 2: 1.4254932303012717}

2

=====

Afstand van bronindex 882 tot...

Centrumindex 0:

```

                22 - 15.992481203007529 = 6.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 36.234453615240994
Euclidische afstand: 6.0195060939616125
-----

Centrumindex 1:
                22 - 54.156682027649765 = -32.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1034.178109537259
Euclidische afstand: 32.15863973393867
-----

Centrumindex 2:
                22 - 31.63235294117647 = -9.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 92.94379565551712
Euclidische afstand: 9.640736261070371
-----

{0: 6.0195060939616125, 1: 32.15863973393867, 2: 9.640736261070371}
0
=====
Afstand van bronindex 883 tot...
Centrumindex 0:
                28 - 15.992481203007529 = 12.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 144.32467917915065
Euclidische afstand: 12.013520682096097
-----

Centrumindex 1:
                28 - 54.156682027649765 = -26.156682027649765
                0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 684.2979252054618
Euclidische afstand: 26.1590887686376
-----

Centrumindex 2:
                28 - 31.63235294117647 = -3.632352941176471
                0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 13.355560361399464
Euclidische afstand: 3.6545260104970474
-----

{0: 12.013520682096097, 1: 26.1590887686376, 2: 3.6545260104970474}
2
=====
Afstand van bronindex 884 tot...
Centrumindex 0:
                25 - 15.992481203007529 = 9.007518796992471
                0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 81.27956639719581
Euclidische afstand: 9.01551808811872

```

```

-----
Centrumindex 1:
    25 - 54.156682027649765 = -29.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 850.2380173713603
Euclidische afstand: 29.158841152750917
-----

Centrumindex 2:
    25 - 31.63235294117647 = -6.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 44.14967800845829
Euclidische afstand: 6.644522406347825
-----

{0: 9.01551808811872, 1: 29.158841152750917, 2: 6.644522406347825}
2
=====
Afstand van bronindex 885 tot...
Centrumindex 0:
    39 - 15.992481203007529 = 23.00751879699247
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 529.490092712985
Euclidische afstand: 23.01065172290835
-----

Centrumindex 1:
    39 - 54.156682027649765 = -15.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 229.85092059716692
Euclidische afstand: 15.160835089043312
-----

Centrumindex 2:
    39 - 31.63235294117647 = 7.367647058823529
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 54.4437956555171
Euclidische afstand: 7.378603909651005
-----

{0: 23.01065172290835, 1: 15.160835089043312, 2: 7.378603909651005}
2
=====
Afstand van bronindex 886 tot...
Centrumindex 0:
    27 - 15.992481203007529 = 11.007518796992471
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 121.30964158516569
Euclidische afstand: 11.014065624698524
-----

Centrumindex 1:
    27 - 54.156682027649765 = -27.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193

```

```

Totale euclidische som: 737.6112892607613
Euclidische afstand: 27.159000152081468
-----
Centrumindex 2:
    27 - 31.63235294117647 = -4.632352941176471
    0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 21.620266243752408
Euclidische afstand: 4.649759804952553
-----
{0: 11.014065624698524, 1: 27.159000152081468, 2: 4.649759804952553}
2
=====
Afstand van bronindex 887 tot...
Centrumindex 0:
    19 - 15.992481203007529 = 3.0075187969924713
    1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 9.429942337045562
Euclidische afstand: 3.0708211177217017
-----
Centrumindex 1:
    19 - 54.156682027649765 = -35.156682027649765
    1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 1236.4085242838028
Euclidische afstand: 35.16260121611885
-----
Centrumindex 2:
    19 - 31.63235294117647 = -12.632352941176471
    1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 159.93399173394852
Euclidische afstand: 12.64650116569593
-----
{0: 3.0708211177217017, 1: 35.16260121611885, 2: 12.64650116569593}
0
=====
Afstand van bronindex 888 tot...
Centrumindex 0:
    15 - 15.992481203007529 = -0.9924812030075287
    0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 1.1291904573463931
Euclidische afstand: 1.0626337362169493
-----
Centrumindex 1:
    15 - 54.156682027649765 = -39.156682027649765
    0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 1533.3716579243555
Euclidische afstand: 39.15828977272061
-----
Centrumindex 2:

```

```

15 - 31.63235294117647 = -16.63235294117647
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 276.79673683198774
Euclidische afstand: 16.63720940638747
-----
{0: 1.0626337362169493, 1: 39.15828977272061, 2: 16.63720940638747}
0
=====
Afstand van bronindex 889 tot...
Centrumindex 0:
26 - 15.992481203007529 = 10.007518796992471
1 - 0.3796992481203007 = 0.6203007518796992
Totale euclidische som: 100.53520549494016
Euclidische afstand: 10.026724564629276
-----
Centrumindex 1:
26 - 54.156682027649765 = -28.156682027649765
1 - 0.3548387096774193 = 0.6451612903225807
Totale euclidische som: 793.2149758967059
Euclidische afstand: 28.164072430966122
-----
Centrumindex 2:
26 - 31.63235294117647 = -5.632352941176471
1 - 0.4019607843137254 = 0.5980392156862746
Totale euclidische som: 32.081050557477894
Euclidische afstand: 5.66401364382872
-----
{0: 10.026724564629276, 1: 28.164072430966122, 2: 5.66401364382872}
2
=====
Afstand van bronindex 890 tot...
Centrumindex 0:
32 - 15.992481203007529 = 16.00751879699247
0 - 0.3796992481203007 = -0.3796992481203007
Totale euclidische som: 256.38482955509045
Euclidische afstand: 16.01202140752661
-----
Centrumindex 1:
32 - 54.156682027649765 = -22.156682027649765
0 - 0.3548387096774193 = -0.3548387096774193
Totale euclidische som: 491.0444689842637
Euclidische afstand: 22.15952321202475
-----
Centrumindex 2:
32 - 31.63235294117647 = 0.367647058823529
0 - 0.4019607843137254 = -0.4019607843137254
Totale euclidische som: 0.2967368319876966
Euclidische afstand: 0.5447355615229252

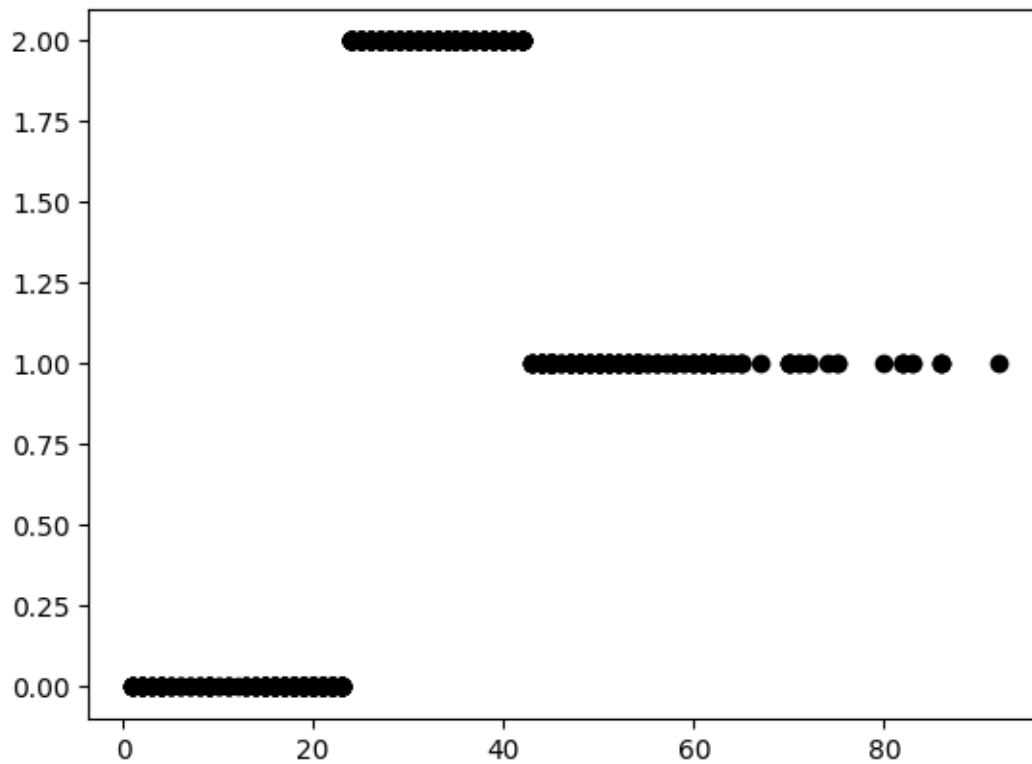
```

```
-----
{0: 16.01202140752661, 1: 22.15952321202475, 2: 0.5447355615229252}
2
=====
```

```
[ ]:      Age  Survived  Centrum
0      22          0      0.0
1      38          1      2.0
2      26          1      2.0
3      35          1      2.0
4      35          0      2.0
..    ...      ...      ...
886    27          0      2.0
887    19          1      0.0
888    15          0      0.0
889    26          1      2.0
890    32          0      2.0
```

```
[891 rows x 3 columns]
```

```
[ ]: plt.scatter(df_2d['Age'], df_2d['Centrum'], color = 'k')
plt.show()
```



```
[ ]: df_2d.groupby('Centrum', as_index = False)['Centrum'].count()
```

```
[ ]: Centrum
0      266
1      217
2      408
```

1.5 Clusteringmodel bouwen met meer dan 2 dimensies (alle kolommen uit de dataset)

1.5.1 Centra berekenen

```
[ ]: kmeans = KMeans(n_clusters = 6, random_state = 42)
prediction_results = kmeans.fit_predict(df)
prediction_results
```

```
[ ]: array([0, 1, 2, 2, 2, 2, 5, 4, 2, 0, 4, 5, 0, 1, 0, 5, 4, 2, 2, 2, 2, 2,
          0, 2, 4, 1, 2, 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
          0, 2, 2, 2, 2, 0, 4, 0, 1, 2, 5, 2, 0, 2, 4, 4, 0, 1, 1, 4, 1, 1,
          2, 0, 0, 2, 2, 0, 0, 2, 2, 0, 1, 1, 3, 2, 0, 2, 0, 2, 0, 2, 0, 0,
          0, 0, 2, 0, 1, 2, 5, 0, 3, 0, 2, 2, 2, 0, 0, 2, 2, 2, 0, 0, 1, 0,
          1, 0, 0, 0, 0, 0, 3, 2, 0, 4, 0, 3, 2, 2, 5, 4, 2, 0, 2, 1, 2, 0,
          1, 2, 0, 0, 0, 2, 0, 0, 2, 0, 0, 0, 0, 0, 2, 4, 2, 1, 5, 0, 5, 1,
          0, 5, 0, 2, 0, 0, 1, 1, 2, 0, 4, 4, 0, 1, 0, 2, 5, 4, 4, 0, 5, 0,
          0, 5, 2, 2, 0, 0, 4, 4, 4, 0, 0, 1, 1, 2, 2, 0, 0, 4, 1, 5, 0, 1,
          0, 0, 2, 0, 2, 1, 0, 4, 2, 2, 0, 1, 0, 2, 0, 2, 1, 2, 2, 1, 2, 2,
          0, 2, 5, 1, 1, 0, 0, 0, 0, 2, 2, 2, 5, 4, 0, 2, 1, 4, 0, 2, 2, 2,
          2, 0, 2, 1, 0, 0, 2, 5, 2, 2, 5, 2, 1, 2, 2, 2, 2, 5, 2, 4, 5, 1,
          2, 2, 0, 0, 5, 2, 2, 0, 1, 2, 2, 5, 1, 2, 4, 2, 5, 2, 0, 0, 2, 2,
          2, 0, 1, 0, 2, 0, 2, 0, 0, 2, 0, 4, 5, 5, 5, 5, 0, 5, 5, 3, 3, 0,
          2, 2, 0, 0, 2, 2, 1, 2, 0, 5, 2, 1, 0, 2, 2, 0, 3, 2, 5, 2, 2, 0,
          3, 1, 1, 0, 5, 5, 2, 1, 1, 1, 4, 0, 2, 0, 2, 0, 1, 5, 4, 1, 0, 5,
          0, 0, 5, 2, 0, 1, 5, 5, 1, 2, 1, 2, 5, 2, 5, 5, 5, 0, 0, 0, 0, 0,
          4, 5, 0, 2, 0, 0, 1, 4, 2, 2, 5, 0, 4, 2, 5, 0, 2, 0, 2, 0, 0, 0,
          2, 1, 0, 2, 1, 2, 0, 2, 0, 2, 5, 4, 0, 5, 5, 5, 2, 5, 1, 5, 2, 0,
          2, 4, 5, 0, 2, 2, 0, 5, 2, 0, 5, 2, 2, 5, 1, 0, 5, 0, 0, 0, 5, 2,
          1, 0, 0, 2, 5, 4, 0, 2, 4, 5, 2, 5, 2, 1, 5, 2, 5, 5, 5, 5, 1, 2,
          1, 1, 5, 1, 5, 5, 5, 3, 2, 1, 2, 0, 0, 2, 2, 2, 0, 4, 4, 2, 5, 5,
          0, 2, 2, 5, 2, 4, 2, 0, 5, 3, 0, 2, 5, 2, 0, 0, 0, 0, 2, 2, 0, 0,
          2, 2, 2, 2, 2, 2, 5, 0, 1, 2, 2, 2, 2, 2, 0, 2, 1, 2, 1, 5, 1,
          1, 0, 4, 1, 0, 1, 2, 4, 1, 2, 1, 0, 2, 4, 4, 2, 5, 5, 0, 1, 2, 4,
          0, 2, 1, 0, 0, 5, 1, 1, 1, 2, 1, 1, 2, 1, 1, 0, 0, 2, 1, 2, 5, 5,
          2, 1, 0, 0, 2, 1, 1, 2, 0, 1, 5, 2, 1, 0, 1, 5, 0, 1, 2, 5, 1, 1,
          2, 2, 1, 1, 1, 1, 0, 1, 1, 1, 2, 2, 2, 2, 0, 1, 1, 1, 1, 1, 2, 0,
          2, 2, 4, 2, 2, 1, 0, 0, 0, 5, 5, 0, 2, 1, 3, 5, 2, 1, 4, 2, 2, 2,
          1, 1, 0, 0, 4, 1, 3, 1, 0, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2, 0, 5,
          5, 1, 1, 2, 0, 2, 0, 0, 1, 0, 1, 2, 3, 2, 0, 0, 0, 0, 1, 2, 2, 2,
          0, 0, 5, 0, 0, 0, 0, 0, 2, 4, 2, 0, 5, 5, 1, 2, 1, 1, 0, 2, 0, 0,
```



```
2, 1, 1, 1, 0, 2, 0, 2, 1, 2, 5, 0, 1, 2, 2, 2, 4, 0, 2, 5, 2, 0,
2, 2, 0, 0, 2, 4, 2, 0, 0, 2, 1, 2, 3, 3, 3, 2, 0, 0, 2, 3, 0, 2,
0, 2, 4, 4, 2, 0, 1, 3, 2, 0, 2, 2, 3, 1, 0, 2, 0, 5, 3, 2, 5, 2,
0, 1, 5, 5, 5, 0, 5, 4, 5, 1, 0, 0, 2, 5, 0, 0, 0, 4, 4, 1, 5, 0,
5, 5, 0, 1, 1, 2, 2, 2, 2, 2, 4, 1, 2, 2, 1, 0, 1, 2, 2, 1, 2, 4,
2, 5, 0, 2, 1, 4, 5, 2, 1, 2, 4, 5, 5, 4, 5, 5, 0, 3, 0, 0, 0, 1,
0, 0, 2, 0, 0, 0, 2, 2, 0, 1, 0, 2, 2, 0, 4, 3, 4, 0, 1, 0, 1, 5,
0, 0, 1, 0, 1, 0, 0, 1, 2, 2, 0, 4, 2, 1, 2, 1, 2, 0, 0, 0, 0, 5,
0, 2, 0, 2, 0, 1, 2, 0, 0, 2, 2])
```

```
[ ]: df['Centrum'] = prediction_results
df
```

```
[ ]:
   Pclass_1 Pclass_2 Pclass_3 Sex_female Sex_male Age Survived \
0      False      False      True      False      True  22         0
1       True      False      False      True      False  38         1
2      False      False      True      True      False  26         1
3       True      False      False      True      False  35         1
4      False      False      True      False      True  35         0
..      ...      ...      ...      ...      ...      ...
886     False      True      False      False      True  27         0
887      True      False      False      True      False  19         1
888     False      False      True      True      False  15         0
889      True      False      False      False      True  26         1
890     False      False      True      False      True  32         0
```

```

   Centrum
0         0
1         1
2         2
3         2
4         2
..      ...
886       2
887       0
888       0
889       2
890       2
```

```
[891 rows x 8 columns]
```

1.5.2 De juiste centra toewijzen aan rijen uit de dataset

```
[ ]: df.groupby('Centrum', as_index = False)['Centrum'].count()
```

```
[ ]:
   Centrum
0      265
```

1	145
2	285
3	22
4	61
5	113

2 De Sales Branches clusteren

Om de segmenten van de verkoopafdelingen te bepalen, gaan we de volgende stappen doorlopen:

- We kunnen de segmenten op basis van producten categorieën en het verkoop van die producten, bepalen welke segmenten we nodig zullen hebben voor onze verkoopafdeling.
- We pakken daarbij ook de branches van de retailers erbij, zodat we de segmenten van de verkoopafdelingen kunnen bepalen.
- Daarna zullen we gebaseerd op de omzet en kosten van de verkoopafdelingen, de segmenten bepalen.
- Waar we dan de gemixte data in een clustering model zullen stoppen en de segmenten bepalen.

Eerst gaan we de data inladen.

```
[ ]: # Verbinding maken met de databases
conn_sales = sqlite3.connect('data/go_sales.sqlite')
conn_crm = sqlite3.connect('data/go_crm.sqlite')
conn_staff = sqlite3.connect('data/go_staff.sqlite')

# Gegevens ophalen uit de databases (Helaas verouderd)
sales_branch = pd.read_sql_query("SELECT * FROM sales_branch", conn_staff)
# country1 = pd.read_sql_query("SELECT * FROM country", conn_sales)
# country2 = pd.read_sql_query("SELECT * FROM country", conn_crm)
# territory = pd.read_sql_query("SELECT * FROM sales_territory", conn_crm)

# orders_header = pd.read_sql_query("SELECT * FROM order_header;", conn_sales)
# order_details = pd.read_sql_query("SELECT * FROM order_details;", conn_sales)
```

Hier gaan we de data van de great outdoors inlezen en bepaalde data dropen.

```
[ ]: # (Helaas Verouderd)
# country = country1[['CURRENCY_NAME', 'LANGUAGE']]
# country = pd.concat([country2, country], axis = 1)
# sales_branch.drop('TRIAL633', axis=1, inplace=True)
# country.drop('TRIAL219', axis=1, inplace=True)
# territory.drop('TRIAL222', axis=1, inplace=True)
# orders_header.drop('TRIAL885', axis=1, inplace=True)
# order_details.drop('TRIAL879', axis=1, inplace=True)
sales_branch.drop('TRIAL633', axis=1, inplace=True)
sales_branch = sales_branch.drop(["ADDRESS1", "ADDRESS2", "POSTAL_ZONE"],
    ↪axis=1)
sales_branch
```

```
[ ]:  SALES_BRANCH_CODE      CITY      REGION COUNTRY_CODE
0          13      Hamburg      None          2
1          14      München      None          2
2          15        Kista      None         10
3          17      Calgary      Alberta         4
4          18      Toronto      Ontario         4
5          19      Boston  Massachusetts         3
6          20      Seattle      Washington         3
7          21    Los Angeles      California         3
8          22        Miami      Florida          3
9          23        Lyon      None           1
10         24  Distrito Federal      México        20
11         25          Tokyo      Tokyo         11
12         26    Osaka City      Osaka         11
13         28      Melbourne      VIC          16
14         29        Bilbao      Vizcaya         19
15         30      São Paulo      SP          21
16         31        Kuopio      None          22
17         32        Seoul      None          13
18         33    San Chung      Taipei         12
19         34      Shanghai      None          14
20         35        London      None           9
21         36    Birmingham  West Midlands         9
22         37        Zürich      None           8
23         38      Heverlee      None          17
24         39        Wien      None           5
25          6        Paris      None           1
26          7        Milano      None           6
27          9      Amsterdam  Noord-Holland         7
```

We zorgen er nu voor dat we de sales_branches city en region gaan omzetten in dummies.

```
[ ]: table = sales_branch[['CITY', 'REGION']]
df = pd.get_dummies(table) # Dummy encoding
```

2.1 Clusteringmodel bouwen met 2 dimensies

Eerst wordt een 2D-dataset gemaakt met de locaties van de verkoopfilialen.

Waar we ook dummy encoding toepassen.

```
[ ]: table = pd.concat([sales_branch, df], axis=1)
table
```

```
[ ]:  SALES_BRANCH_CODE      CITY      REGION COUNTRY_CODE \
0          13      Hamburg      None          2
1          14      München      None          2
2          15        Kista      None         10
3          17      Calgary      Alberta         4
```

4	18	Toronto	Ontario	4
5	19	Boston	Massachusetts	3
6	20	Seattle	Washington	3
7	21	Los Angeles	California	3
8	22	Miami	Florida	3
9	23	Lyon	None	1
10	24	Distrito Federal	México	20
11	25	Tokyo	Tokyo	11
12	26	Osaka City	Osaka	11
13	28	Melbourne	VIC	16
14	29	Bilbao	Vizcaya	19
15	30	São Paulo	SP	21
16	31	Kuopio	None	22
17	32	Seoul	None	13
18	33	San Chung	Taipei	12
19	34	Shanghai	None	14
20	35	London	None	9
21	36	Birmingham	West Midlands	9
22	37	Zürich	None	8
23	38	Heverlee	None	17
24	39	Wien	None	5
25	6	Paris	None	1
26	7	Milano	None	6
27	9	Amsterdam	Noord-Holland	7

	CITY_Amsterdam	CITY_Bilbao	CITY_Birmingham	CITY_Boston	CITY_Calgary \
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	True
4	False	False	False	False	False
5	False	False	False	True	False
6	False	False	False	False	False
7	False	False	False	False	False
8	False	False	False	False	False
9	False	False	False	False	False
10	False	False	False	False	False
11	False	False	False	False	False
12	False	False	False	False	False
13	False	False	False	False	False
14	False	True	False	False	False
15	False	False	False	False	False
16	False	False	False	False	False
17	False	False	False	False	False
18	False	False	False	False	False
19	False	False	False	False	False
20	False	False	False	False	False

21	False	False	True	False	False
22	False	False	False	False	False
23	False	False	False	False	False
24	False	False	False	False	False
25	False	False	False	False	False
26	False	False	False	False	False
27	True	False	False	False	False

	CITY_Distrito	Federal	...	REGION_Noord-Holland	REGION_Ontario	\
0		False	...	False	False	
1		False	...	False	False	
2		False	...	False	False	
3		False	...	False	False	
4		False	...	False	True	
5		False	...	False	False	
6		False	...	False	False	
7		False	...	False	False	
8		False	...	False	False	
9		False	...	False	False	
10		True	...	False	False	
11		False	...	False	False	
12		False	...	False	False	
13		False	...	False	False	
14		False	...	False	False	
15		False	...	False	False	
16		False	...	False	False	
17		False	...	False	False	
18		False	...	False	False	
19		False	...	False	False	
20		False	...	False	False	
21		False	...	False	False	
22		False	...	False	False	
23		False	...	False	False	
24		False	...	False	False	
25		False	...	False	False	
26		False	...	False	False	
27		False	...	True	False	

	REGION_Osaka	REGION_SP	REGION_Taipei	REGION_Tokyo	REGION_VIC	\
0	False	False	False	False	False	
1	False	False	False	False	False	
2	False	False	False	False	False	
3	False	False	False	False	False	
4	False	False	False	False	False	
5	False	False	False	False	False	
6	False	False	False	False	False	
7	False	False	False	False	False	

8	False	False	False	False	False
9	False	False	False	False	False
10	False	False	False	False	False
11	False	False	False	True	False
12	True	False	False	False	False
13	False	False	False	False	True
14	False	False	False	False	False
15	False	True	False	False	False
16	False	False	False	False	False
17	False	False	False	False	False
18	False	False	True	False	False
19	False	False	False	False	False
20	False	False	False	False	False
21	False	False	False	False	False
22	False	False	False	False	False
23	False	False	False	False	False
24	False	False	False	False	False
25	False	False	False	False	False
26	False	False	False	False	False
27	False	False	False	False	False

	REGION_Vizcaya	REGION_Washington	REGION_West Midlands
0	False	False	False
1	False	False	False
2	False	False	False
3	False	False	False
4	False	False	False
5	False	False	False
6	False	True	False
7	False	False	False
8	False	False	False
9	False	False	False
10	False	False	False
11	False	False	False
12	False	False	False
13	False	False	False
14	True	False	False
15	False	False	False
16	False	False	False
17	False	False	False
18	False	False	False
19	False	False	False
20	False	False	False
21	False	False	True
22	False	False	False
23	False	False	False
24	False	False	False

25	False	False	False
26	False	False	False
27	False	False	False

[28 rows x 47 columns]

Een k-means clusteringmodel wordt geïnstantieerd met het gewenste aantal clusters (3 of 4 in het eerste geval, met een willenkeurigheid van 42) en toegepast op de 2D-dataset.

```
[ ]: # Train het clustermodel
kmeans = KMeans(n_clusters=5, random_state=42)
prediction_results = kmeans.fit_predict(df)
prediction_results

kmeans_centra = pd.DataFrame(kmeans.cluster_centers_)
kmeans_centra

for i in range(len(kmeans_centra.columns)):
    kmeans_centra = kmeans_centra.rename(columns = {i : f'{df.columns[i]}'})

kmeans_centra
```

```
[ ]: CITY_Amsterdam CITY_Bilbao CITY_Birmingham CITY_Boston CITY_Calgary \
0 0.000000e+00 0.000000 0.000000 0.000000 0.000000
1 1.387779e-17 0.041667 0.041667 0.041667 0.041667
2 0.000000e+00 0.000000 0.000000 0.000000 0.000000
3 0.000000e+00 0.000000 0.000000 0.000000 0.000000
4 1.000000e+00 0.000000 0.000000 0.000000 0.000000
```

```
CITY_Distrito Federal CITY_Hamburg CITY_Heverlee CITY_Kista \
0 1.000000e+00 0.000000 0.000000 0.000000
1 1.387779e-17 0.041667 0.041667 0.041667
2 0.000000e+00 0.000000 0.000000 0.000000
3 0.000000e+00 0.000000 0.000000 0.000000
4 0.000000e+00 0.000000 0.000000 0.000000
```

```
CITY_Kuopio ... REGION_Noord-Holland REGION_Ontario REGION_Osaka \
0 0.000000 ... 0.000000e+00 0.000000e+00 0.000000
1 0.041667 ... 1.387779e-17 1.387779e-17 0.041667
2 0.000000 ... 0.000000e+00 1.000000e+00 0.000000
3 0.000000 ... 0.000000e+00 0.000000e+00 0.000000
4 0.000000 ... 1.000000e+00 0.000000e+00 0.000000
```

```
REGION_SP REGION_Taipei REGION_Tokyo REGION_VIC REGION_Vizcaya \
0 0.000000e+00 0.000000 0.000000 0.000000 0.000000
1 1.387779e-17 0.041667 0.041667 0.041667 0.041667
2 0.000000e+00 0.000000 0.000000 0.000000 0.000000
3 1.000000e+00 0.000000 0.000000 0.000000 0.000000
```

4	0.000000e+00	0.000000	0.000000	0.000000	0.000000
	REGION_Washington	REGION_West Midlands			
0	0.000000	0.000000			
1	0.041667	0.041667			
2	0.000000	0.000000			
3	0.000000	0.000000			
4	0.000000	0.000000			

[5 rows x 43 columns]

De centra van de clusters worden geëxtraheerd en weergegeven. Voor elk punt in de dataset wordt de afstand tot elk clustercentrum berekend, en het punt wordt toegewezen aan het dichtstbijzijnde cluster.

```
[ ]: for src_index, _ in df.iterrows():
    euclidian_distances = dict()
    print(f"Afstand van bronindex {src_index} tot...")

    for centrumindex, _ in kmeans_centra.iterrows():
        print(f"\tCentrumindex {centrumindex}:")
        euclidian_sum = 0

        for column_name in kmeans_centra.columns:
            current_difference = df.at[src_index, column_name] - kmeans_centra.
            ↪at[centrumindex, column_name]
            print(f'\t\t{df.at[src_index, column_name]} - {kmeans_centra.
            ↪at[centrumindex, column_name]} = {current_difference}')
            euclidian_sum += current_difference ** 2

        print(f'\tTotale euclidische som: {euclidian_sum}')
        euclidian_distance = math.sqrt(euclidian_sum)
        print(f'\tEuclidische afstand: {euclidian_distance}')
        euclidian_distances[centrumindex] = euclidian_distance
        print('-----')

    print(euclidian_distances)
    centrum_number = min(euclidian_distances, key = euclidian_distances.get)
    print(centrum_number)
    df.at[src_index, 'Centrum'] = centrum_number
    print("=====")

df
```

Afstand van bronindex 0 tot...

Centrumindex 0:

False - 0.0 = 0.0

False - 0.0 = 0.0

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 0.9774305555555571

Euclidische afstand: 0.9886508764753902

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
```

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

Totale euclidische som: 0.977430555555567
Euclidische afstand: 0.98865087647539

```
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
```


False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.98865087647539, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 2 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 0.977430555555557

Euclidische afstand: 0.9886508764753901

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0


```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

```

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```


False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 1.8940972222222224

Euclidische afstand: 1.376262047076146

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
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 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

 Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}

1

=====

Afstand van bronindex 4 tot...

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0
Euclidische afstand: 2.0

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
True - 1.3877787807814457e-17 = 1.0
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 1.3877787807814457e-17 = 1.0
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 2.0607638888888897

Euclidische afstand: 1.4355360980793517

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 0.0

Euclidische afstand: 0.0

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0


```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

{0: 2.0, 1: 1.4355360980793517, 2: 0.0, 3: 2.0, 4: 2.0}

2

=====

Afstand van bronindex 5 tot...

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0

```

```

False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

```

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668

```

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

Totale euclidische som: 1.894097222222224

Euclidische afstand: 1.376262047076146

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
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 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}

1

=====

Afstand van bronindex 6 tot...

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 1.8940972222222232

Euclidische afstand: 1.3762620470761457

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```


False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0
-----
{0: 2.0, 1: 1.3762620470761457, 2: 2.0, 3: 2.0, 4: 2.0}
1
=====
Afstand van bronindex 7 tot...
Centrumindex 0:
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0

```

```
Totale euclidische som: 4.0
Euclidische afstand: 2.0
```

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 1.8940972222222237

Euclidische afstand: 1.376262047076146

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

```

-----
{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}

```

1

```

=====
Afstand van bronindex 8 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0

```



```
Totale euclidische som: 4.0
Euclidische afstand: 2.0
```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 1.8940972222222237

Euclidische afstand: 1.376262047076146

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

```

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}

1

=====

Afstand van bronindex 9 tot...

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 0.9774305555555569

Euclidische afstand: 0.9886508764753901

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0


```
Totale euclidische som: 0.0
Euclidische afstand: 0.0
```

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 1.3877787807814457e-17 = 1.0
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 1.3877787807814457e-17 = 1.0
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 2.0607638888888906

Euclidische afstand: 1.435536098079352

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

```

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

```

-----
{0: 0.0, 1: 1.435536098079352, 2: 2.0, 3: 2.0, 4: 2.0}

```

0

```

=====
Afstand van bronindex 11 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.0416666666666668 = 0.9583333333333334
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 1.8940972222222232

Euclidische afstand: 1.3762620470761457

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

{0: 2.0, 1: 1.3762620470761457, 2: 2.0, 3: 2.0, 4: 2.0}

1

=====

Afstand van bronindex 12 tot...

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.0416666666666668 = 0.9583333333333334
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 1.8940972222222232

Euclidische afstand: 1.3762620470761457

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0
 Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0


```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0
-----
{0: 2.0, 1: 1.3762620470761457, 2: 2.0, 3: 2.0, 4: 2.0}
1
=====
Afstand van bronindex 13 tot...
Centrumindex 0:
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

```

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 1.8940972222222237

Euclidische afstand: 1.376262047076146

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

 Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

```

-----
{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}

```

1

```

=====
Afstand van bronindex 14 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 1.894097222222224

Euclidische afstand: 1.376262047076146

Centrumindex 2:

```

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```


False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 4.0

Euclidische afstand: 2.0

```

-----
{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}
1

```

```

=====
Afstand van bronindex 15 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 1.3877787807814457e-17 = 1.0
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
True - 1.3877787807814457e-17 = 1.0
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 2.0607638888888893

Euclidische afstand: 1.4355360980793515

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 0.0
Euclidische afstand: 0.0

```

Centrumindex 4:

```

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0
-----
{0: 2.0, 1: 1.4355360980793515, 2: 2.0, 3: 0.0, 4: 2.0}
3
=====
Afstand van bronindex 16 tot...
Centrumindex 0:
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```


False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 0.977430555555557

Euclidische afstand: 0.9886508764753901

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753901, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 17 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 0.9774305555555555

Euclidische afstand: 0.9886508764753899

Centrumindex 2:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

[illegible]

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753899, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 18 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 1.8940972222222232

Euclidische afstand: 1.3762620470761457

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0

```

Centrumindex 4:

```

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0
-----
{0: 2.0, 1: 1.3762620470761457, 2: 2.0, 3: 2.0, 4: 2.0}
1
=====
Afstand van bronindex 19 tot...
Centrumindex 0:
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668


```

False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.95833333333333334
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

Totale euclidische som: 0.9774305555555564

Euclidische afstand: 0.9886508764753897

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
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False - 0.0 = 0.0
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False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753897, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 20 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
```

```

False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

Totale euclidische som: 0.977430555555557

Euclidische afstand: 0.9886508764753901

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0


```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753901, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 21 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334

```

Totale euclidische som: 1.8940972222222224

Euclidische afstand: 1.376262047076146

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0

```

Centrumindex 3:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0

```

```

Centrumindex 4:
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0
-----
{0: 2.0, 1: 1.376262047076146, 2: 2.0, 3: 2.0, 4: 2.0}
1
=====
Afstand van bronindex 22 tot...
Centrumindex 0:
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

[illegible]

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 0.9774305555555562

Euclidische afstand: 0.9886508764753897

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```


False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753897, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 23 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

[illegible]

```

False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668

```

Totale euclidische som: 0.9774305555555571

Euclidische afstand: 0.9886508764753902

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753902, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 24 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```


Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

[illegible]

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 0.0416666666666668 = 0.9583333333333334
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
Totale euclidische som: 0.9774305555555562
Euclidische afstand: 0.9886508764753897

```

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753897, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 25 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

[illegible]

False - 0.0416666666666668 = -0.0416666666666668
 True - 0.0416666666666668 = 0.9583333333333334
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 0.0416666666666668 = -0.0416666666666668
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 0.0416666666666668 = -0.0416666666666668
 False - 1.3877787807814457e-17 = -1.3877787807814457e-17
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668
 False - 0.0416666666666668 = -0.0416666666666668

Totale euclidische som: 0.977430555555556

Euclidische afstand: 0.9886508764753899

Centrumindex 2:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

True - 0.0 = 1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 1.0 = -1.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 False - 0.0 = 0.0
 True - 0.0 = 1.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.9886508764753899, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 26 tot...

```

Centrumindex 0:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0

```

Totale euclidische som: 3.0
Euclidische afstand: 1.7320508075688772

```
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
True - 0.04166666666666668 = 0.9583333333333334
False - 0.04166666666666668 = -0.04166666666666668
```

```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 0.9774305555555567

Euclidische afstand: 0.98865087647539

Centrumindex 2:

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 3:

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

Centrumindex 4:

False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 3.0

Euclidische afstand: 1.7320508075688772

```

-----
{0: 1.7320508075688772, 1: 0.98865087647539, 2: 1.7320508075688772, 3:
1.7320508075688772, 4: 1.7320508075688772}

```

1

```

=====
Afstand van bronindex 27 tot...

```

Centrumindex 0:

```

True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 1:

True - 1.3877787807814457e-17 = 1.0
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668
False - 0.04166666666666668 = -0.04166666666666668


```

False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
True - 1.3877787807814457e-17 = 1.0
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 1.3877787807814457e-17 = -1.3877787807814457e-17
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668
False - 0.0416666666666668 = -0.0416666666666668

```

Totale euclidische som: 2.060763888888906

Euclidische afstand: 1.435536098079352

Centrumindex 2:

```

True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
Totale euclidische som: 4.0
Euclidische afstand: 2.0

```

Centrumindex 3:

```

True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 0.0 = 1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 1.0 = -1.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

Totale euclidische som: 4.0

Euclidische afstand: 2.0

Centrumindex 4:

True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
True - 1.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0
False - 0.0 = 0.0

```

Totale euclidische som: 0.0

Euclidische afstand: 0.0

```

-----
{0: 2.0, 1: 1.435536098079352, 2: 2.0, 3: 2.0, 4: 0.0}

```

4

```

=====

```

```

[ ]:  CITY_Amsterdam CITY_Bilbao CITY_Birmingham CITY_Boston CITY_Calgary \
0      False      False      False      False      False
1      False      False      False      False      False
2      False      False      False      False      False
3      False      False      False      False      True
4      False      False      False      False      False
5      False      False      False      True       False
6      False      False      False      False      False
7      False      False      False      False      False
8      False      False      False      False      False
9      False      False      False      False      False
10     False      False      False      False      False
11     False      False      False      False      False
12     False      False      False      False      False
13     False      False      False      False      False
14     False      True       False      False      False
15     False      False      False      False      False

```

16	False	False	False	False	False
17	False	False	False	False	False
18	False	False	False	False	False
19	False	False	False	False	False
20	False	False	False	False	False
21	False	False	True	False	False
22	False	False	False	False	False
23	False	False	False	False	False
24	False	False	False	False	False
25	False	False	False	False	False
26	False	False	False	False	False
27	True	False	False	False	False

	CITY_Distrito	Federal	CITY_Hamburg	CITY_Heverlee	CITY_Kista	\
0		False	True	False	False	
1		False	False	False	False	
2		False	False	False	True	
3		False	False	False	False	
4		False	False	False	False	
5		False	False	False	False	
6		False	False	False	False	
7		False	False	False	False	
8		False	False	False	False	
9		False	False	False	False	
10		True	False	False	False	
11		False	False	False	False	
12		False	False	False	False	
13		False	False	False	False	
14		False	False	False	False	
15		False	False	False	False	
16		False	False	False	False	
17		False	False	False	False	
18		False	False	False	False	
19		False	False	False	False	
20		False	False	False	False	
21		False	False	False	False	
22		False	False	False	False	
23		False	False	True	False	
24		False	False	False	False	
25		False	False	False	False	
26		False	False	False	False	
27		False	False	False	False	

	CITY_Kuopio	...	REGION_Ontario	REGION_Osaka	REGION_SP	REGION_Taipei	\
0	False	...	False	False	False	False	
1	False	...	False	False	False	False	
2	False	...	False	False	False	False	

3	False	...	False	False	False	False
4	False	...	True	False	False	False
5	False	...	False	False	False	False
6	False	...	False	False	False	False
7	False	...	False	False	False	False
8	False	...	False	False	False	False
9	False	...	False	False	False	False
10	False	...	False	False	False	False
11	False	...	False	False	False	False
12	False	...	False	True	False	False
13	False	...	False	False	False	False
14	False	...	False	False	False	False
15	False	...	False	False	True	False
16	True	...	False	False	False	False
17	False	...	False	False	False	False
18	False	...	False	False	False	True
19	False	...	False	False	False	False
20	False	...	False	False	False	False
21	False	...	False	False	False	False
22	False	...	False	False	False	False
23	False	...	False	False	False	False
24	False	...	False	False	False	False
25	False	...	False	False	False	False
26	False	...	False	False	False	False
27	False	...	False	False	False	False

	REGION_Tokyo	REGION_VIC	REGION_Vizcaya	REGION_Washington	\
0	False	False	False	False	
1	False	False	False	False	
2	False	False	False	False	
3	False	False	False	False	
4	False	False	False	False	
5	False	False	False	False	
6	False	False	False	True	
7	False	False	False	False	
8	False	False	False	False	
9	False	False	False	False	
10	False	False	False	False	
11	True	False	False	False	
12	False	False	False	False	
13	False	True	False	False	
14	False	False	True	False	
15	False	False	False	False	
16	False	False	False	False	
17	False	False	False	False	
18	False	False	False	False	
19	False	False	False	False	

20	False	False	False	False
21	False	False	False	False
22	False	False	False	False
23	False	False	False	False
24	False	False	False	False
25	False	False	False	False
26	False	False	False	False
27	False	False	False	False

	REGION_West Midlands	Centrum
0	False	1.0
1	False	1.0
2	False	1.0
3	False	1.0
4	False	2.0
5	False	1.0
6	False	1.0
7	False	1.0
8	False	1.0
9	False	1.0
10	False	0.0
11	False	1.0
12	False	1.0
13	False	1.0
14	False	1.0
15	False	3.0
16	False	1.0
17	False	1.0
18	False	1.0
19	False	1.0
20	False	1.0
21	True	1.0
22	False	1.0
23	False	1.0
24	False	1.0
25	False	1.0
26	False	1.0
27	False	4.0

[28 rows x 44 columns]

De resultaten worden gevisualiseerd door een scatterplot te maken van de kwantiteit versus de eenheidsprijs, waarbij de punten zijn gekleurd op basis van hun toegewezen cluster.

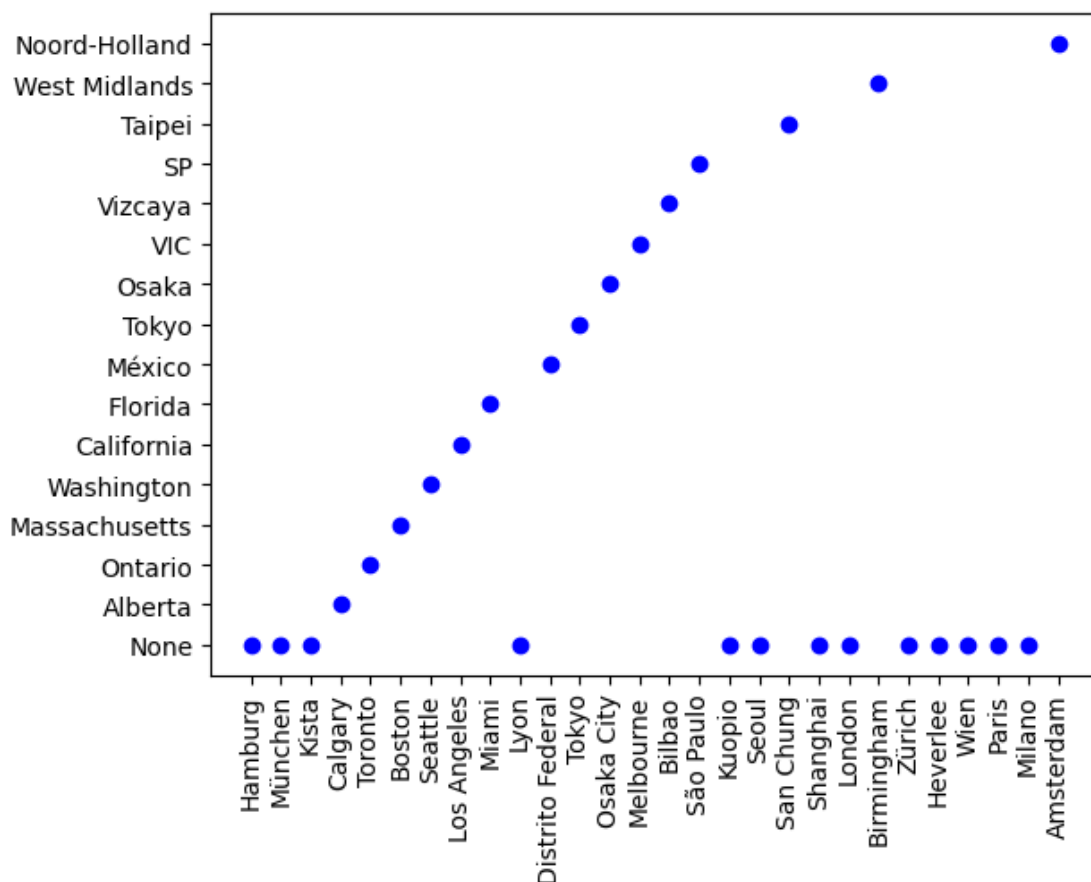
```
[ ]: # (Helaas verouderd)
# plt.scatter(table['TERRITORY_NAME_EN'], table['CURRENCY_NAME'], c =
↳ prediction_results, cmap = 'rainbow')
```

```

# plt.show()
# Nu gaan we een bar weergeven, waar alle quantiteiten worden weergegeven per
↳ sales_branch
# Create a DataFrame with the branch names mapping
# branch_names = sales_branch[['SALES_BRANCH_CODE', 'CITY', 'REGION']]
# branch_names = branch_names.drop_duplicates()
# branch_names['CITY']

plt.scatter(table["CITY"].astype(str), table["REGION"].astype(str),
↳ color="blue")
plt.xticks(rotation=90)
plt.show()

```



De centra van de clusters worden geëxtraheerd en weergegeven.

```

[ ]: df.groupby('Centrum', as_index = False)['Centrum'].count()

```

```

[ ]:
  Centrum
0       1

```



```

1      17
2      3
3      1
4      1
5      1
6      1
7      1
8      1
9      1

```

2.2 Clusteringmodel bouwen met meer dan 2 dimensies (alle kolommen uit de dataset)

Nu gaan we hetzelfde doen als hierboven, maar dan met alle kolommen uit de dataset. En misschien ook verder testen met verschillende k's.

```
[ ]: kmeans = KMeans(n_clusters = 5, random_state = 42)
      prediction_results = kmeans.fit_predict(df)
      prediction_results
```

```
[ ]: array([3, 2, 2, 1, 1, 3, 4, 4, 3, 2, 0, 3, 3, 3, 1, 3, 2, 3, 3, 3, 2, 1,
           3, 3, 3, 3, 3, 4])
```

```
[ ]: df['Centrum'] = prediction_results
      df
```

```
[ ]:
      CITY_Amsterdam CITY_Bilbao CITY_Birmingham CITY_Boston CITY_Calgary \
0          False      False          False      False      False
1          False      False          False      False      False
2          False      False          False      False      False
3          False      False          False      False      True
4          False      False          False      False      False
5          False      False          False      True       False
6          False      False          False      False      False
7          False      False          False      False      False
8          False      False          False      False      False
9          False      False          False      False      False
10         False      False          False      False      False
11         False      False          False      False      False
12         False      False          False      False      False
13         False      False          False      False      False
14         False      True          False      False      False
15         False      False          False      False      False
16         False      False          False      False      False
17         False      False          False      False      False
18         False      False          False      False      False
19         False      False          False      False      False
20         False      False          False      False      False
```

21	False	False	True	False	False
22	False	False	False	False	False
23	False	False	False	False	False
24	False	False	False	False	False
25	False	False	False	False	False
26	False	False	False	False	False
27	True	False	False	False	False

	CITY_Distrito	Federal	CITY_Hamburg	CITY_Heverlee	CITY_Kista	\
0		False	True	False	False	
1		False	False	False	False	
2		False	False	False	True	
3		False	False	False	False	
4		False	False	False	False	
5		False	False	False	False	
6		False	False	False	False	
7		False	False	False	False	
8		False	False	False	False	
9		False	False	False	False	
10		True	False	False	False	
11		False	False	False	False	
12		False	False	False	False	
13		False	False	False	False	
14		False	False	False	False	
15		False	False	False	False	
16		False	False	False	False	
17		False	False	False	False	
18		False	False	False	False	
19		False	False	False	False	
20		False	False	False	False	
21		False	False	False	False	
22		False	False	False	False	
23		False	False	True	False	
24		False	False	False	False	
25		False	False	False	False	
26		False	False	False	False	
27		False	False	False	False	

	CITY_Kuopio	...	REGION_Ontario	REGION_Osaka	REGION_SP	REGION_Taipei	\
0	False	...	False	False	False	False	
1	False	...	False	False	False	False	
2	False	...	False	False	False	False	
3	False	...	False	False	False	False	
4	False	...	True	False	False	False	
5	False	...	False	False	False	False	
6	False	...	False	False	False	False	
7	False	...	False	False	False	False	

8	False	...	False	False	False	False
9	False	...	False	False	False	False
10	False	...	False	False	False	False
11	False	...	False	False	False	False
12	False	...	False	True	False	False
13	False	...	False	False	False	False
14	False	...	False	False	False	False
15	False	...	False	False	True	False
16	True	...	False	False	False	False
17	False	...	False	False	False	False
18	False	...	False	False	False	True
19	False	...	False	False	False	False
20	False	...	False	False	False	False
21	False	...	False	False	False	False
22	False	...	False	False	False	False
23	False	...	False	False	False	False
24	False	...	False	False	False	False
25	False	...	False	False	False	False
26	False	...	False	False	False	False
27	False	...	False	False	False	False

	REGION_Tokyo	REGION_VIC	REGION_Vizcaya	REGION_Washington \
0	False	False	False	False
1	False	False	False	False
2	False	False	False	False
3	False	False	False	False
4	False	False	False	False
5	False	False	False	False
6	False	False	False	True
7	False	False	False	False
8	False	False	False	False
9	False	False	False	False
10	False	False	False	False
11	True	False	False	False
12	False	False	False	False
13	False	True	False	False
14	False	False	True	False
15	False	False	False	False
16	False	False	False	False
17	False	False	False	False
18	False	False	False	False
19	False	False	False	False
20	False	False	False	False
21	False	False	False	False
22	False	False	False	False
23	False	False	False	False
24	False	False	False	False

25	False	False	False	False
26	False	False	False	False
27	False	False	False	False

	REGION_West Midlands	Centrum
0	False	3
1	False	2
2	False	2
3	False	1
4	False	1
5	False	3
6	False	4
7	False	4
8	False	3
9	False	2
10	False	0
11	False	3
12	False	3
13	False	3
14	False	1
15	False	3
16	False	2
17	False	3
18	False	3
19	False	3
20	False	2
21	True	1
22	False	3
23	False	3
24	False	3
25	False	3
26	False	3
27	False	4

[28 rows x 44 columns]

```
[ ]: df.groupby('Centrum', as_index = False)['Centrum'].count()
```

```
[ ]: Centrum
0      1
1      4
2      5
3     15
4      3
```

2.3 Evaluatie van de clustering

Hier gaan we de inter- en intracuster afstand berekenen voor verschillende k's.

```
[ ]: from typing import Literal, Any
intercluster_distance: Literal[0] = 0
intracluster_distance: Literal[0] = 0

common_columns: Any = df.columns.intersection(kmeans_centra.columns)

for centrumindex, _ in kmeans_centra[common_columns].iterrows():
    for src_index, _ in df[common_columns].iterrows():
        if df.at[src_index, "Centrum"] == centrumindex:
            diff = df.loc[src_index, common_columns] - kmeans_centra.
↳loc[centrumindex, common_columns]
            distance = np.linalg.norm(diff[pd.to_numeric(diff, errors="coerce").
↳notnull()])
            intracluster_distance += distance
        else:
            diff = df.loc[src_index, common_columns] - kmeans_centra.
↳loc[centrumindex, common_columns]
            distance = np.linalg.norm(diff[pd.to_numeric(diff, errors="coerce").
↳notnull()])
            intercluster_distance += distance

print(f"Intercluster distance (more is better): {intercluster_distance}")
print(f"Intracluster distance (less is better): {intracluster_distance}")
```

Intercluster distance (more is better): 191.71914756021337
 Intracluster distance (less is better): 44.08098273770318

Nu voeren we deze analyse uit om het optimale aantal clusters (k) voor K-Means-clustering te bepalen met behulp van de elleboogmethode. Hierdoor kunnen we de inter- en intracluster afstand optimaal berekenen voor verschillende k's.

```
[ ]: intercluster_distances: list = []
intracluster_distances: list = []
k_options = range(1, 11)

for k in k_options:
    kmeans: KMeans = KMeans(n_clusters=k, random_state=42)
    df["Centrum"] = kmeans.fit_predict(df)
    kmeans_center = pd.DataFrame(kmeans.cluster_centers_, columns=df.columns)

    intercluster_distance: Literal[0] = 0
    intracluster_distance: Literal[0] = 0

    common_columns: Any = df.columns.intersection(kmeans_center.columns)

    for centrumindex, _ in kmeans_center[common_columns].iterrows():
        for src_index, _ in df[common_columns].iterrows():
            if df.at[src_index, "Centrum"] == centrumindex:
```

```

        diff = df.loc[src_index, common_columns] - kmeans_center.
        loc[centrumindex, common_columns]
        distance = np.linalg.norm(diff[pd.to_numeric(diff,
        errors="coerce").notnull()])
        intracluster_distance += distance
    else:
        diff = df.loc[src_index, common_columns] - kmeans_center.
        loc[centrumindex, common_columns]
        distance = np.linalg.norm(diff[pd.to_numeric(diff,
        errors="coerce").notnull()])
        intercluster_distance += distance

    intercluster_distances.append(intercluster_distance)
    intracluster_distances.append(intracluster_distance)

plt.plot(k_options, intercluster_distances, marker="o", label="Intercluster_
afstand", color="g")
plt.plot(k_options, intracluster_distances, marker="x", label="Intracluster_
afstand", color="b")
plt.xlabel("Hoeveelheid van k-clusters")
plt.ylabel("Cluster afstand")
plt.title("Inter- en Intracluster afstand")
plt.legend()
plt.show()

```

