

# Final

May 1, 2018

```
In [3]: %pylab inline
```

Populating the interactive namespace from numpy and matplotlib

```
In [4]: from sklearn.manifold import TSNE
```

```
In [5]: # Loading the iris dataset
        from sklearn.datasets import load_iris
        iris = load_iris()
```

```
In [8]: iris.keys()
```

```
Out[8]: dict_keys(['data', 'target', 'target_names', 'DESCR', 'feature_names'])
```

```
In [9]: iris.target_names
```

```
Out[9]: array(['setosa', 'versicolor', 'virginica'], dtype='<U10')
```

```
In [10]: iris.feature_names
```

```
Out[10]: ['sepal length (cm)',
          'sepal width (cm)',
          'petal length (cm)',
          'petal width (cm)']
```

```
In [11]: iris.target
```

```
Out[11]: array([0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
               0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
               0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
               1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
               1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
               1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2,
               2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
               2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2])
```

```
In [15]: help(TSNE)
```

Help on class TSNE in module sklearn.manifold.t\_sne:

```
class TSNE(sklearn.base.BaseEstimator)
|   t-distributed Stochastic Neighbor Embedding.
|
|   t-SNE [1] is a tool to visualize high-dimensional data. It converts
|   similarities between data points to joint probabilities and tries
|   to minimize the Kullback-Leibler divergence between the joint
|   probabilities of the low-dimensional embedding and the
|   high-dimensional data. t-SNE has a cost function that is not convex,
|   i.e. with different initializations we can get different results.
|
|   It is highly recommended to use another dimensionality reduction
|   method (e.g. PCA for dense data or TruncatedSVD for sparse data)
|   to reduce the number of dimensions to a reasonable amount (e.g. 50)
|   if the number of features is very high. This will suppress some
|   noise and speed up the computation of pairwise distances between
|   samples. For more tips see Laurens van der Maaten's FAQ [2].
|
|   Read more in the :ref:`User Guide <t_sne>`.
|
|   Parameters
|   -----
|   n_components : int, optional (default: 2)
|       Dimension of the embedded space.
|
|   perplexity : float, optional (default: 30)
|       The perplexity is related to the number of nearest neighbors that
|       is used in other manifold learning algorithms. Larger datasets
|       usually require a larger perplexity. Consider selecting a value
|       between 5 and 50. The choice is not extremely critical since t-SNE
|       is quite insensitive to this parameter.
|
|   early_exaggeration : float, optional (default: 12.0)
|       Controls how tight natural clusters in the original space are in
|       the embedded space and how much space will be between them. For
|       larger values, the space between natural clusters will be larger
|       in the embedded space. Again, the choice of this parameter is not
|       very critical. If the cost function increases during initial
|       optimization, the early exaggeration factor or the learning rate
|       might be too high.
|
|   learning_rate : float, optional (default: 200.0)
|       The learning rate for t-SNE is usually in the range [10.0, 1000.0]. If
|       the learning rate is too high, the data may look like a 'ball' with any
|       point approximately equidistant from its nearest neighbours. If the
|       learning rate is too low, most points may look compressed in a dense
|       cloud with few outliers. If the cost function gets stuck in a bad local
```

```

|     minimum increasing the learning rate may help.
|
| n_iter : int, optional (default: 1000)
|     Maximum number of iterations for the optimization. Should be at
|     least 250.
|
| n_iter_without_progress : int, optional (default: 300)
|     Maximum number of iterations without progress before we abort the
|     optimization, used after 250 initial iterations with early
|     exaggeration. Note that progress is only checked every 50 iterations so
|     this value is rounded to the next multiple of 50.
|
|     .. versionadded:: 0.17
|         parameter *n_iter_without_progress* to control stopping criteria.
|
| min_grad_norm : float, optional (default: 1e-7)
|     If the gradient norm is below this threshold, the optimization will
|     be stopped.
|
| metric : string or callable, optional
|     The metric to use when calculating distance between instances in a
|     feature array. If metric is a string, it must be one of the options
|     allowed by scipy.spatial.distance.pdist for its metric parameter, or
|     a metric listed in pairwise.PAIRWISE_DISTANCE_FUNCTIONS.
|     If metric is "precomputed", X is assumed to be a distance matrix.
|     Alternatively, if metric is a callable function, it is called on each
|     pair of instances (rows) and the resulting value recorded. The callable
|     should take two arrays from X as input and return a value indicating
|     the distance between them. The default is "euclidean" which is
|     interpreted as squared euclidean distance.
|
| init : string or numpy array, optional (default: "random")
|     Initialization of embedding. Possible options are 'random', 'pca',
|     and a numpy array of shape (n_samples, n_components).
|     PCA initialization cannot be used with precomputed distances and is
|     usually more globally stable than random initialization.
|
| verbose : int, optional (default: 0)
|     Verbosity level.
|
| random_state : int, RandomState instance or None, optional (default: None)
|     If int, random_state is the seed used by the random number generator;
|     If RandomState instance, random_state is the random number generator;
|     If None, the random number generator is the RandomState instance used
|     by `np.random`. Note that different initializations might result in
|     different local minima of the cost function.
|
| method : string (default: 'barnes_hut')

```

```

| By default the gradient calculation algorithm uses Barnes-Hut
| approximation running in  $O(N \log N)$  time. method='exact'
| will run on the slower, but exact, algorithm in  $O(N^2)$  time. The
| exact algorithm should be used when nearest-neighbor errors need
| to be better than 3%. However, the exact method cannot scale to
| millions of examples.
|
| .. versionadded:: 0.17
|     Approximate optimization *method* via the Barnes-Hut.
|
| angle : float (default: 0.5)
|     Only used if method='barnes_hut'
|     This is the trade-off between speed and accuracy for Barnes-Hut T-SNE.
|     'angle' is the angular size (referred to as theta in [3]) of a distant
|     node as measured from a point. If this size is below 'angle' then it is
|     used as a summary node of all points contained within it.
|     This method is not very sensitive to changes in this parameter
|     in the range of 0.2 - 0.8. Angle less than 0.2 has quickly increasing
|     computation time and angle greater 0.8 has quickly increasing error.
|
| Attributes
| -----
| embedding_ : array-like, shape (n_samples, n_components)
|     Stores the embedding vectors.
|
| kl_divergence_ : float
|     Kullback-Leibler divergence after optimization.
|
| n_iter_ : int
|     Number of iterations run.
|
| Examples
| -----
|
| >>> import numpy as np
| >>> from sklearn.manifold import TSNE
| >>> X = np.array([[0, 0, 0], [0, 1, 1], [1, 0, 1], [1, 1, 1]])
| >>> X_embedded = TSNE(n_components=2).fit_transform(X)
| >>> X_embedded.shape
| (4, 2)
|
| References
| -----
|
| [1] van der Maaten, L.J.P.; Hinton, G.E. Visualizing High-Dimensional Data
|     Using t-SNE. Journal of Machine Learning Research 9:2579-2605, 2008.
|
| [2] van der Maaten, L.J.P. t-Distributed Stochastic Neighbor Embedding

```

```

|      http://homepage.tudelft.nl/19j49/t-SNE.html
|
| [3] L.J.P. van der Maaten. Accelerating t-SNE using Tree-Based Algorithms.
|      Journal of Machine Learning Research 15(Oct):3221-3245, 2014.
|      http://lvdmaaten.github.io/publications/papers/JMLR_2014.pdf
|
| Method resolution order:
|     TSNE
|     sklearn.base.BaseEstimator
|     builtins.object
|
| Methods defined here:
|
| __init__(self, n_components=2, perplexity=30.0, early_exaggeration=12.0, learning_rate=200
|     Initialize self.  See help(type(self)) for accurate signature.
|
| fit(self, X, y=None)
|     Fit X into an embedded space.
|
|     Parameters
|     -----
|
|     X : array, shape (n_samples, n_features) or (n_samples, n_samples)
|         If the metric is 'precomputed' X must be a square distance
|         matrix. Otherwise it contains a sample per row. If the method
|         is 'exact', X may be a sparse matrix of type 'csr', 'csc'
|         or 'coo'.
|
|     y : Ignored.
|
| fit_transform(self, X, y=None)
|     Fit X into an embedded space and return that transformed
|     output.
|
|     Parameters
|     -----
|
|     X : array, shape (n_samples, n_features) or (n_samples, n_samples)
|         If the metric is 'precomputed' X must be a square distance
|         matrix. Otherwise it contains a sample per row.
|
|     y : Ignored.
|
|     Returns
|     -----
|
|     X_new : array, shape (n_samples, n_components)
|         Embedding of the training data in low-dimensional space.
|
| -----
| Data descriptors defined here:

```

```

| n_iter_final
|     DEPRECATED: Attribute n_iter_final was deprecated in version 0.19 and will be removed
|
| -----
| Methods inherited from sklearn.base.BaseEstimator:
|
| __getstate__(self)
|
| __repr__(self)
|     Return repr(self).
|
| __setstate__(self, state)
|
| get_params(self, deep=True)
|     Get parameters for this estimator.
|
|     Parameters
|     -----
|     deep : boolean, optional
|         If True, will return the parameters for this estimator and
|         contained subobjects that are estimators.
|
|     Returns
|     -----
|     params : mapping of string to any
|         Parameter names mapped to their values.
|
| set_params(self, **params)
|     Set the parameters of this estimator.
|
|     The method works on simple estimators as well as on nested objects
|     (such as pipelines). The latter have parameters of the form
|     ``<component>__<parameter>`` so that it's possible to update each
|     component of a nested object.
|
|     Returns
|     -----
|     self
|
| -----
| Data descriptors inherited from sklearn.base.BaseEstimator:
|
| __dict__
|     dictionary for instance variables (if defined)
|
| __weakref__
|     list of weak references to the object (if defined)

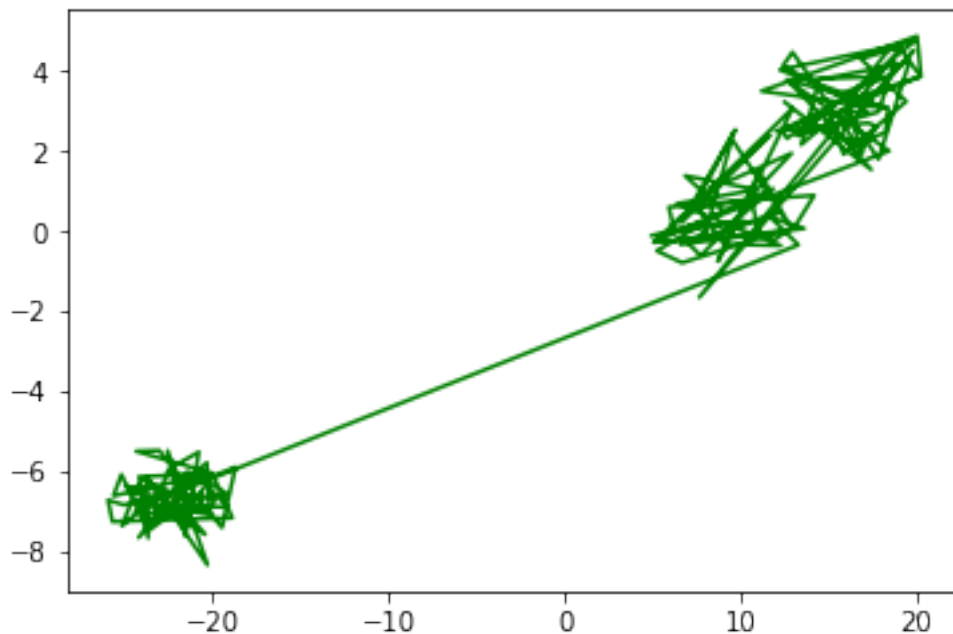
```

```
In [28]: from sklearn.manifold import TSNE
X = np.array([[0, 0, 0], [0, 1, 1], [1, 0, 1], [1, 1, 1]])
# X_embedded = TSNE(n_components=2).fit_transform(iris.data)
X_embedded = TSNE(learning_rate = 100).fit_transform(iris.data)
X_embedded.shape
```

Out[28]: (150, 2)

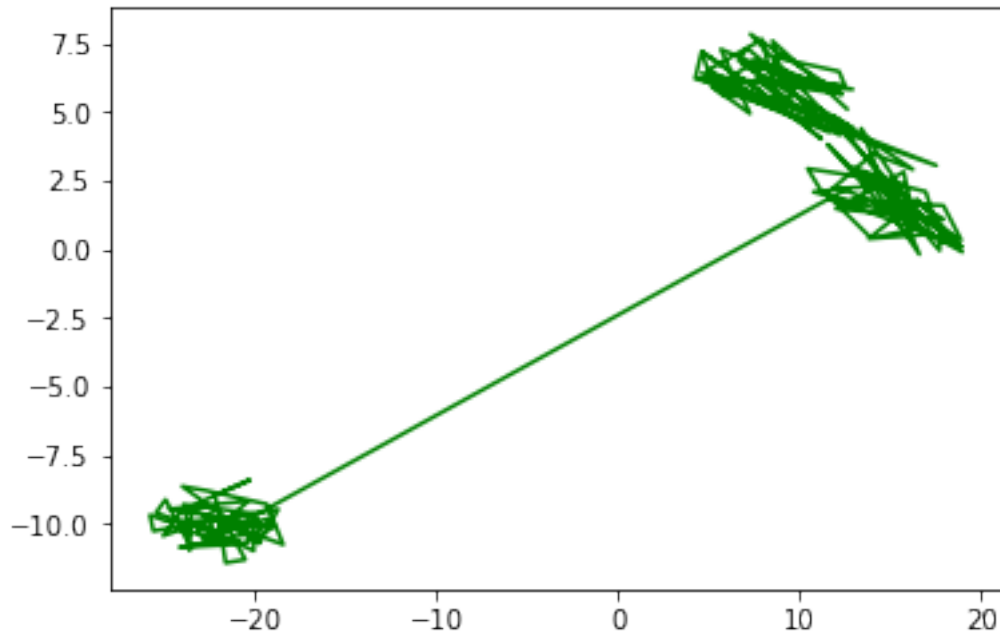
```
In [29]: plt.plot( X_embedded[:,0], X_embedded[:,1] , 'g')
```

Out[29]: [<matplotlib.lines.Line2D at 0x166b2f28358>]



```
In [26]: plt.plot( X_embedded[:,0], X_embedded[:,1] , 'g')
```

Out[26]: [<matplotlib.lines.Line2D at 0x166b2ec8438>]



In [27]: X\_embedded[:,0]

```
Out[27]: array([-22.794207 , -20.08789 , -20.097242 , -19.701225 , -22.88455 ,
-24.744394 , -20.368147 , -22.037226 , -18.913137 , -20.614525 ,
-24.293297 , -21.25682 , -19.809494 , -18.74033 , -25.614143 ,
-25.805782 , -24.8938 , -22.835783 , -25.083088 , -23.868017 ,
-23.621763 , -23.500349 , -20.3046 , -22.201345 , -21.636562 ,
-20.552782 , -22.149515 , -23.21512 , -22.803593 , -20.464443 ,
-20.413975 , -23.614662 , -24.944864 , -25.472944 , -20.614525 ,
-21.31995 , -24.18251 , -20.614525 , -19.019522 , -22.424942 ,
-22.401138 , -18.465916 , -19.361673 , -22.64674 , -24.02684 ,
-19.7762 , -23.958145 , -19.88018 , -24.039722 , -21.682901 ,
10.997775 , 12.689735 , 10.7431965, 17.558247 , 12.183967 ,
15.744366 , 12.764938 , 18.91881 , 12.04272 , 17.902039 ,
18.879566 , 15.2617855, 16.575157 , 13.524249 , 17.912811 ,
11.977924 , 15.714274 , 16.374666 , 13.786665 , 17.256052 ,
13.365234 , 15.473018 , 11.523232 , 13.732015 , 13.205722 ,
12.328116 , 11.195414 , 10.424491 , 14.284344 , 17.68944 ,
17.696875 , 17.868492 , 16.690151 , 11.822143 , 16.219975 ,
14.020408 , 11.448563 , 13.883671 , 16.433762 , 17.363728 ,
16.92466 , 13.714064 , 16.635717 , 18.84858 , 16.758083 ,
16.03245 , 16.098654 , 14.120992 , 18.942297 , 16.424665 ,
7.2670817, 12.296143 , 6.0598154, 8.6788225, 7.335865 ,
4.5885687, 17.507505 , 5.120078 , 7.2430377, 5.6418095,
9.241946 , 9.517724 , 7.556667 , 12.470276 , 12.150231 ,
8.5794525, 8.547122 , 4.583734 , 4.2241397, 11.350129 ,
```



```

        6.7695093, 12.904532 ,  4.4259048, 11.59525 ,  7.096691 ,
        5.6641927, 12.183431 , 12.591301 ,  8.064242 ,  5.789908 ,
        5.2223063,  4.599717 ,  7.965872 , 11.178687 , 10.021637 ,
        4.973216 ,  7.92153 ,  8.672089 , 12.939072 ,  7.6409345,
        7.419214 ,  8.347614 , 12.29631 ,  6.5942883,  7.10058 ,
        8.4041605, 11.124019 ,  9.103306 ,  8.479842 , 12.588684 ],
dtype=float32)

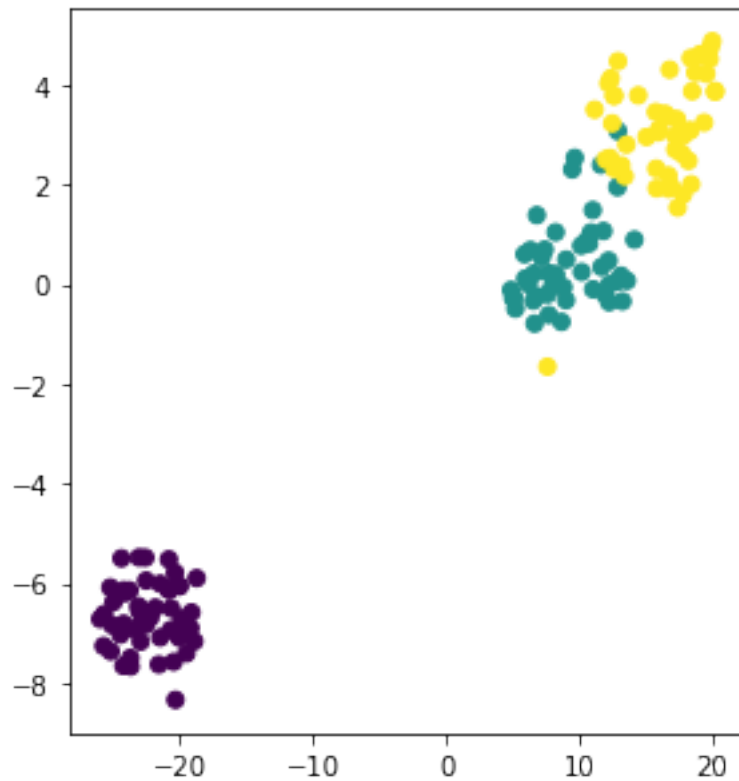
```

```
In [23]: X_embedded[:,1]
```

```
Out[23]: array([-231.1655 , -147.38359, -262.18234, -116.36655], dtype=float32)
```

```
In [38]: figure(figsize = (10,5) )
        subplot(121)
        scatter(X_embedded[:,0], X_embedded[:,1], c = iris.target )
```

```
Out[38]: <matplotlib.collections.PathCollection at 0x166b326beb8>
```



```
In [46]: x_min = X_embedded[:,0].min()
```

```
In [47]: x_max = X_embedded[:,0].max()
```

```
In [48]: y_min = X_embedded[:,1].min()
        y_max = X_embedded[:,1].max()
```

```
In [49]: Limits = [ [ x_min , x_max] , [y_min, y_max] ]
```

```
In [50]: Limits
```

```
Out[50]: [[-25.9487, 20.243372], [-8.339147, 4.883639]]
```

```
In [89]: def find_good_size(Limits,windowSize):
    x_min = Limits[0][0]
    x_max = Limits[0][1]
    y_min = Limits[1][0]
    y_max = Limits[1][1]
    from math import floor , ceil
    # Clean the matrix
    x_min = floor(x_min)
    x_max = ceil(x_max)
    y_min = floor(y_min)
    y_max = ceil(y_max)

    # Printing the cleaend up values.
    print(x_min,x_max,y_min, y_max)

    # Fitting the size to handle the windows
    a = (x_max - x_min) % windowSize
    b = (y_max - y_min) % windowSize

    if ( (x_max + a) % windowSize == 0):
        x_max = x_max + a
    else:
        x_max = x_max + (windowSize - a)

    if ( (y_max + b) % windowSize == 0):
        y_max = y_max + b
    else:
        y_max = y_max + (windowSize - b)

    print("You Can use this matrix now.")
    print("X_min=",x_min)
    print("X_max=",x_max)
    print("Y_min=",y_min)
    print("Y_max=",y_max)
    print("And the Matrix Shape:", (x_max - x_min) , " * ", (y_max - y_min))
    return [[x_min,x_max],[y_min,y_max]]
```

```
In [90]: find_good_size(Limits,1)
```

```
-26 21 -9 5
```

```
You Can use this matrix now.
```

```
X_min= -26
```

```

X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14

```

```
Out[90]: [[-26, 21], [-9, 5]]
```

```
In [66]: find_good_size(Limits,10)
```

```

-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 11
And the Matrix Shape: 50 * 20

```

```
Out[66]: [[-26, 24], [-9, 11]]
```

```

In [91]: def tell_windows(Limits>windowSize):
          g = find_good_size(Limits>windowSize)
          # Going Row Wise:
          count = 0
          for i in range(g[0][0],g[0][1],windowSize):
              for j in range(g[1][0],g[1][1],windowSize):
                  count += 1
                  print("<Window:",count,">","X:[", i, ",", i +windowSize , "]" , "Y:[", j,
print("Total Count:",count)
          ans = (g[0][1]-g[0][0])*(g[1][1]-g[1][0]) // (windowSize ** 2)
          print("Expected Count:",ans)
          print("OKAY:", count == ans )

```

```
In [93]: tell_windows([[0,3],[0,3]],1)
```

```

0 3 0 3
You Can use this matrix now.
X_min= 0
X_max= 3
Y_min= 0
Y_max= 3
And the Matrix Shape: 3 * 3
<Window: 1 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
<Window: 2 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
<Window: 3 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
<Window: 4 > X:[ 1 , 2 ] Y:[ 0 , 1 ]
<Window: 5 > X:[ 1 , 2 ] Y:[ 1 , 2 ]
<Window: 6 > X:[ 1 , 2 ] Y:[ 2 , 3 ]

```

```
<Window: 7 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
<Window: 8 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
<Window: 9 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Total Count: 9
Expected Count: 9
OKAY: True
```

```
In [94]: tell_windows([[0,3],[0,3]],3)
```

```
0 3 0 3
You Can use this matrix now.
X_min= 0
X_max= 3
Y_min= 0
Y_max= 3
And the Matrix Shape: 3 * 3
<Window: 1 > X:[ 0 , 3 ] Y:[ 0 , 3 ]
Total Count: 1
Expected Count: 1
OKAY: True
```

```
In [95]: tell_windows([[0,3],[0,3]],5)
```

```
0 3 0 3
You Can use this matrix now.
X_min= 0
X_max= 5
Y_min= 0
Y_max= 5
And the Matrix Shape: 5 * 5
<Window: 1 > X:[ 0 , 5 ] Y:[ 0 , 5 ]
Total Count: 1
Expected Count: 1
OKAY: True
```

```
In [77]: Limts
```

```
Out[77]: [[-25.9487, 20.243372], [-8.339147, 4.883639]]
```

```
In [96]: tell_windows(Limts,3)
```

```
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
```

```

Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]

```

```

<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Total Count: 80
Expected Count: 80
OKAY: True

```

```

In [103]: # Okay So now We have a function which finds the windows we just now need to calcula
def calEntropy(window,label):
    'Takes: [x_min, x_max],[y_min, y_max]'
    'returns entropy of the window'
    x_min, x_max , y_min, y_max = window
    # Set up entropy to be zero
    en = 0
    from math import log
    c = [0,0,0]

```

```

# Calculate the number of samples in this window.
# X_embedded stores the data.
for i in range(150):
    cx = X_embedded[i][0]
    cy = X_embedded[i][1]
    if x_min <= cx <= x_max and y_min <= cy <= y_max:
        print("Found a sample of class:",label[i])
        c[label[i]] += 1
t = c[0] + c[1] + c[2]
for i in c:
    if i!= 0:
        en += - ( i/t * log(i/t) )
print("Found Entropy:",en)
return en

```

```

In [109]: def tell_windows(Limits,windowSize,target):
    g = find_good_size(Limits,windowSize)
    # Going Row Wise:
    total_ent = 0
    count = 0
    for i in range(g[0][0],g[0][1],windowSize):
        for j in range(g[1][0],g[1][1],windowSize):
            count += 1
            print("<Window:",count,">", "X:[", i, ",", i +windowSize , "]" , "Y:[", j
            total_ent += calEntropy([i,windowSize+i, j, windowSize+j], target)
    print("Total Count:",count)
    ans = (g[0][1]-g[0][0])*(g[1][1]-g[1][0]) // (windowSize ** 2)
    print("Expected Count:",ans)
    print("OKAY:", count == ans )
    print("-----Done-----",total_ent)
    return total_ent

```

```

In [110]: tell_windows(Limits,3, add_noise(0))

```

```

Plotting the data with Noise => 0 %
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 0

```



Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]

Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]

```

Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.48257756517701206
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.37677016125643675
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0

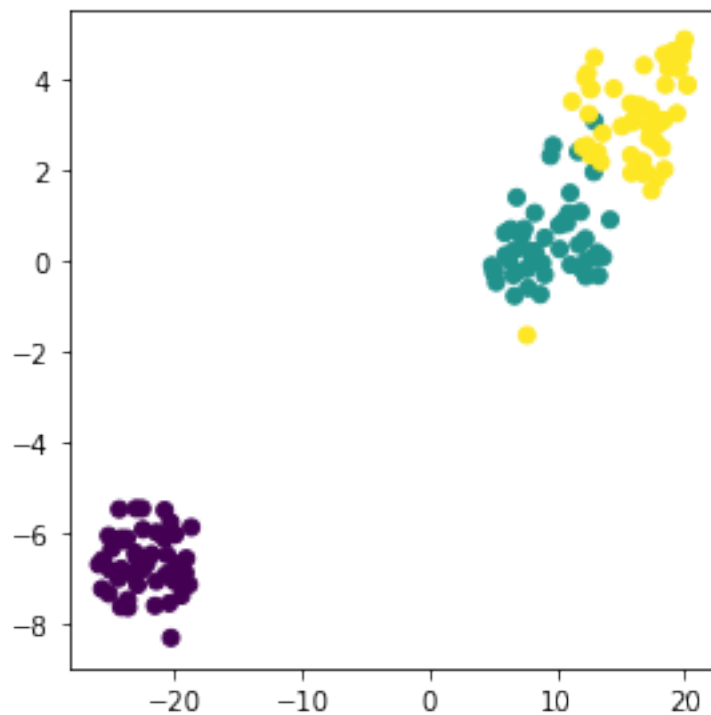
```

```

<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 1.9059782130166705

```

Out[110]: 1.9059782130166705



```

In [113]: def add_noise(percentage):
    'Adds the given percentage of noise to the iris data and returns the new data'
    # Original
    target = [0 for i in range(50)] + [ 1 for i in range(50)] + [ 2 for i in range(50)]
    # 0 - 50 : class 0
    # 50 - 100 : class 1
    # 100 - 150 : class 2
    # We will change the labels in a class label randomly
    import random
    # Offset for percentage => (window size)* percentage
    offset = 50 * percentage // 100
    for i in range(0, 0 + offset ):
        target[i] = random.choice([1,2])
    for i in range(50, 50 + offset):
        target[i] = random.choice([0,2])
    for i in range(100,100 + offset):
        target[i] = random.choice([0,1])

    # Got the new labeled data
    # Now we can plot the tsne with this.
    #print("Plotting the data with Noise => ", percentage , " %")
    figure( figsize = (20,10))
    subplot(242)
    scatter(X_embedded[:,0], X_embedded[:,1], c = target)
    print("Done!")
    return target

In [115]: def main(windowSize, noise):
    return tell_windows(Limits,windowSize,add_noise(noise))

In [117]: xxxx = []
    yyyy = []
    for i in range(0,100,10):
        xxxx.append(i)
        yyyy.append(main(3,i))

Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]

```



```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0

```

```

<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0

```

```

<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.48257756517701206
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.37677016125643675
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0

```

```

<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]

```

```

Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 1.9059782130166705
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found Entropy: 0.2145591551764051
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.336495757583516
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 0

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.45056120886630463  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0



```

<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found Entropy: 0.410116318288409
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]

```

```

Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.7774621319109287
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5297061990576545
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2

```

```

Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.30463609734923813
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.639031859650177
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 5.833869503703472
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.34883209584303193
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2

```

Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.708018976056273  
 <Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5623351446188083  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0

<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0

```

<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9556998911125343
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]

```



```

Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.7963116401738131
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2

```

Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6853142072764582  
 <Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.7356219397587946  
 <Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.5297061990576545  
 <Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.30463609734923813
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6108643020548935
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 8.146882998185937
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9

```

```

Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6837389058487535
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.9097077103274986  
 <Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5623351446188083  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0

```

<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0

```

```

<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6829081047004717
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8675632284814612
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.5982695885852573
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.3250829733914482
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9743147528693494
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9743147528693494
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]

```



```

Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6869615765973234
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.47413931305783735
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8018185525433373
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 10.507330121040468
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0366279688586069
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.8785250991271565
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]

```

Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0

```

<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0

```

```

Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0789922078775833
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0114042647073518
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.7963116401738131
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8018185525433373
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0

```

```

<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8815322611881636
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.7595473914748635
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]

```



```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 13.927450011307299
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0688206728265008
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0

```

```

<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0171643509248343
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0

```

```

<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6829081047004717
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

Found Entropy: 1.0114042647073518  
 <Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.5982695885852573  
 <Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6730116670092565  
 <Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 1.0986122886681096  
 <Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0239287996389363
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9002560512685369
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9368883075390159
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0

```

```

<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9075352941050093
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9433483923290393
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0986122886681096
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 14.301825684532538

```

```

Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9368883075390159
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2

```



```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0601189359398382
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073516
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0

```

```

<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0

```

```

<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6829081047004717
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found Entropy: 0.7963116401738131
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8979457248567797
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1

```

Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 1.0397207708399179  
 <Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.8486855577264172  
 <Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.8599672810355049  
 <Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5004024235381879
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9368883075390159
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 12.619612365784652
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0263306332944864
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0958871542125537
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 1

```

Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0114042647073518  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0



```

<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0

```

```

<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0042424730540764
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9556998911125343
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0296530140645737

```

```

<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2

```

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9075352941050093
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.8018185525433372
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]

```

```

Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.9649629230074277
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 15.087570013154586
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9649629230074277

```

```

<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9932682101499607
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0

```

```

<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0789922078775833
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]

```



Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 1.0789922078775833  
 <Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 1.0888999753452238  
 <Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.9840865030829146
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9743147528693494
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9649629230074277
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0361987848192837
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.8979457248567797
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 0
Found Entropy: 0.6365141682948128
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 13.689747163330022
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9580002800887726
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.7534424611802384  
 <Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.5623351446188083  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.8675632284814612  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0

```

<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0

```

```

<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0042424730540764
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]

```

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.9556998911125343
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0888999753452238
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1

```



```

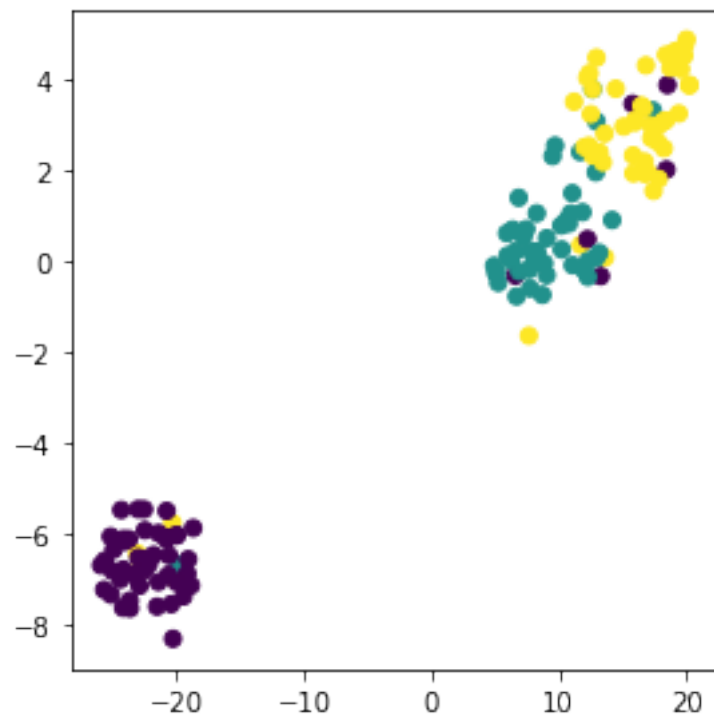
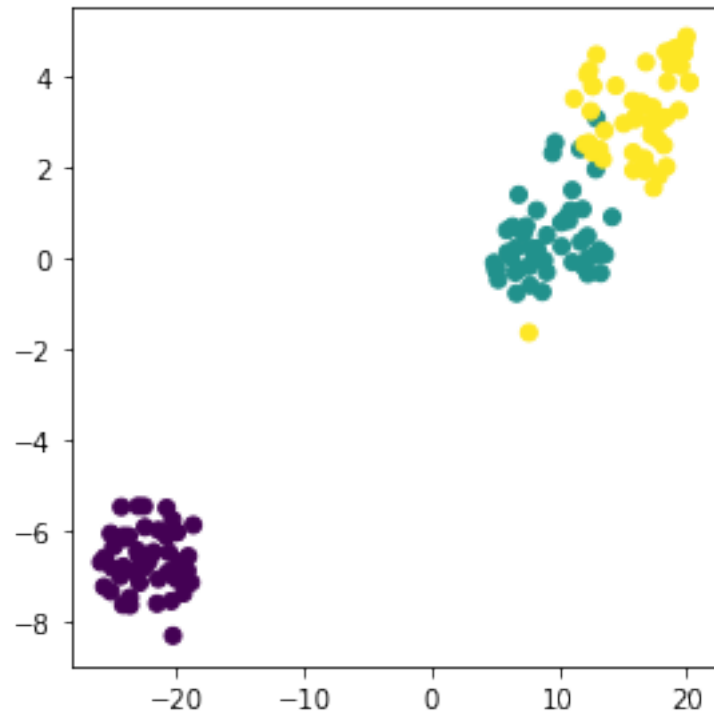
Found Entropy: 1.0433534269422904
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.9743147528693494
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9368883075390159
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0

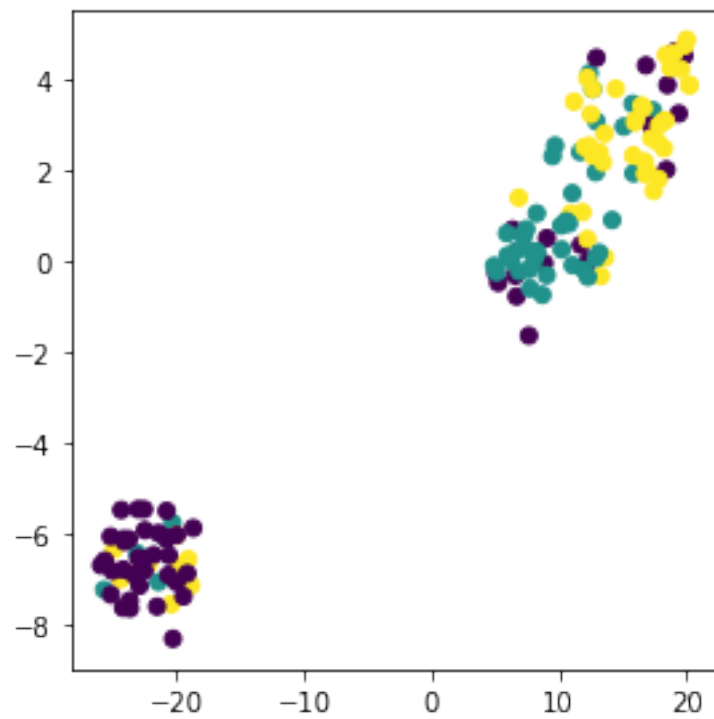
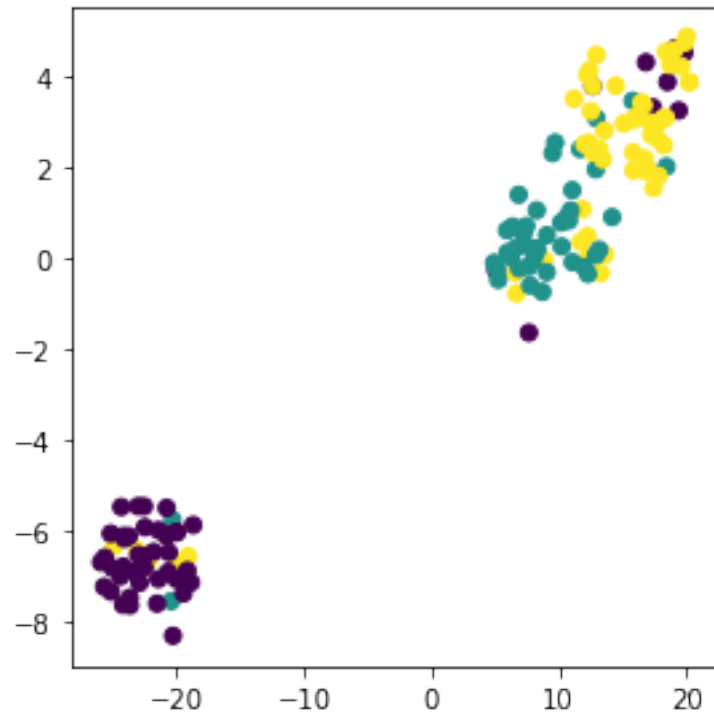
```

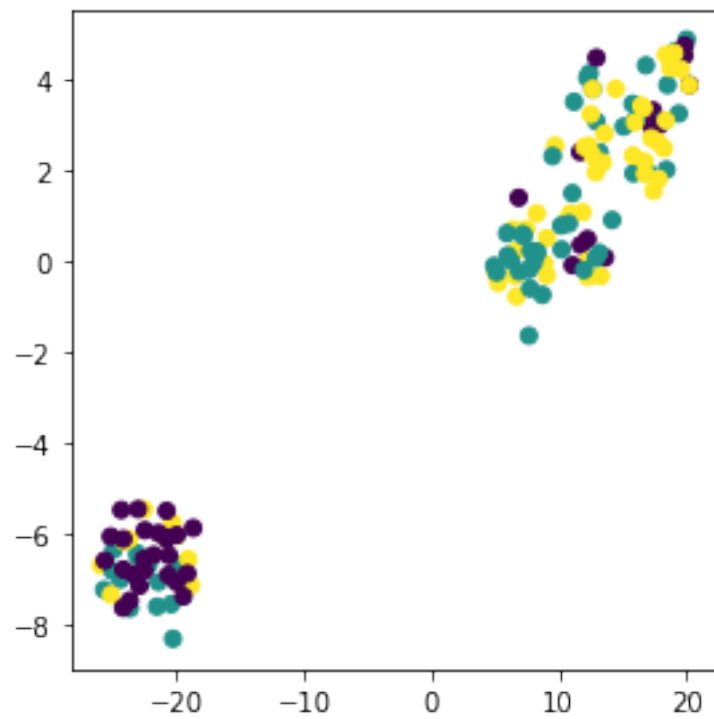
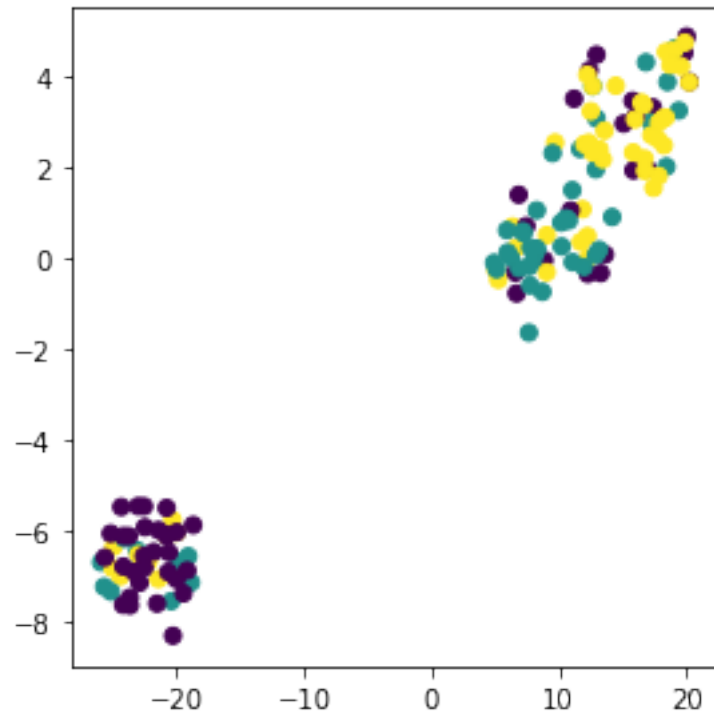
```

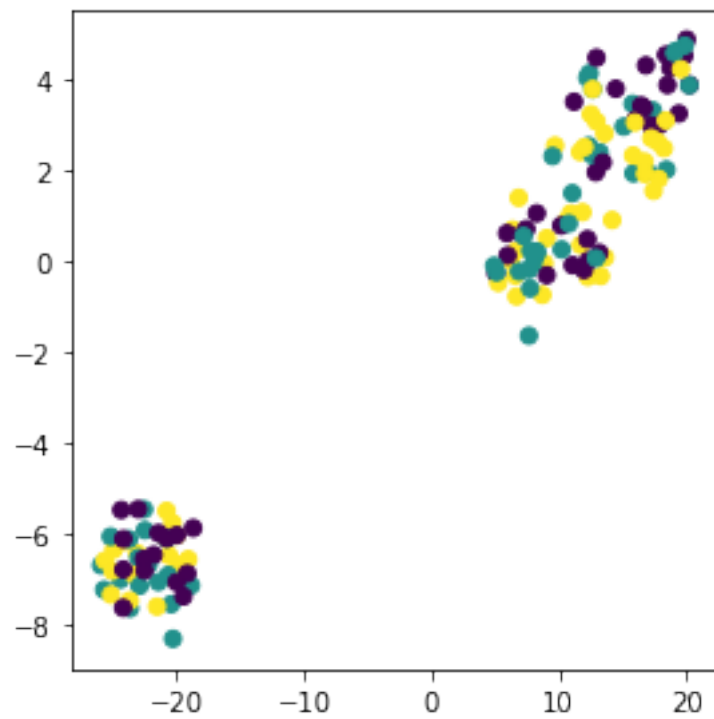
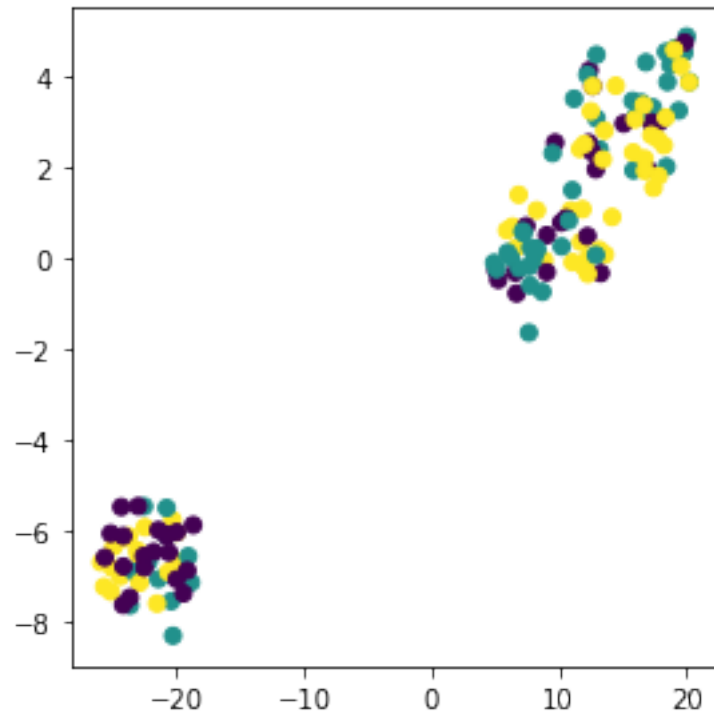
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9949236325717752
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6730116670092565
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6869615765973234
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 13.465812334559693

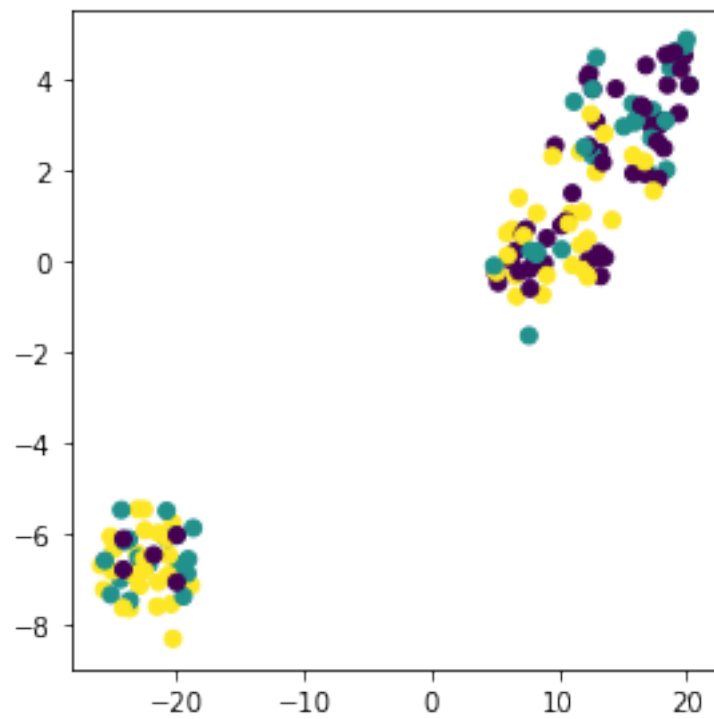
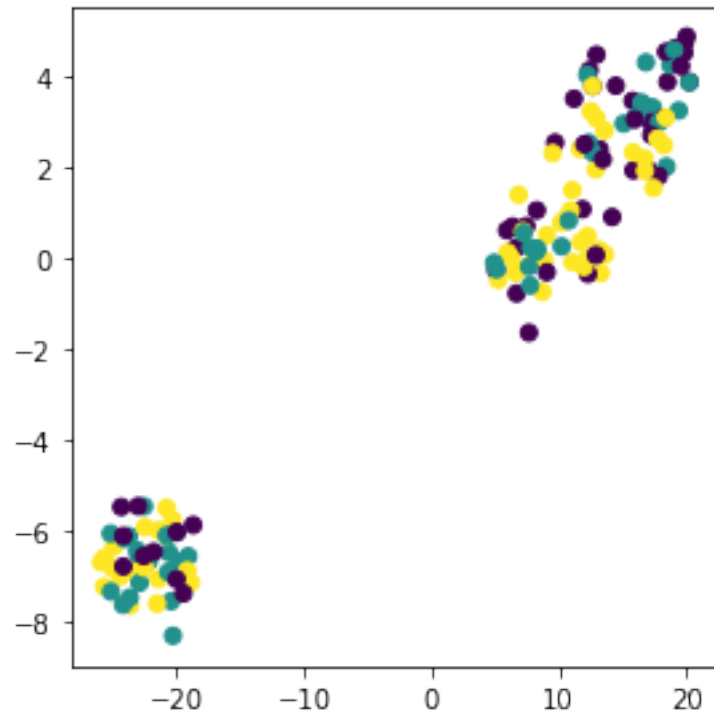
```











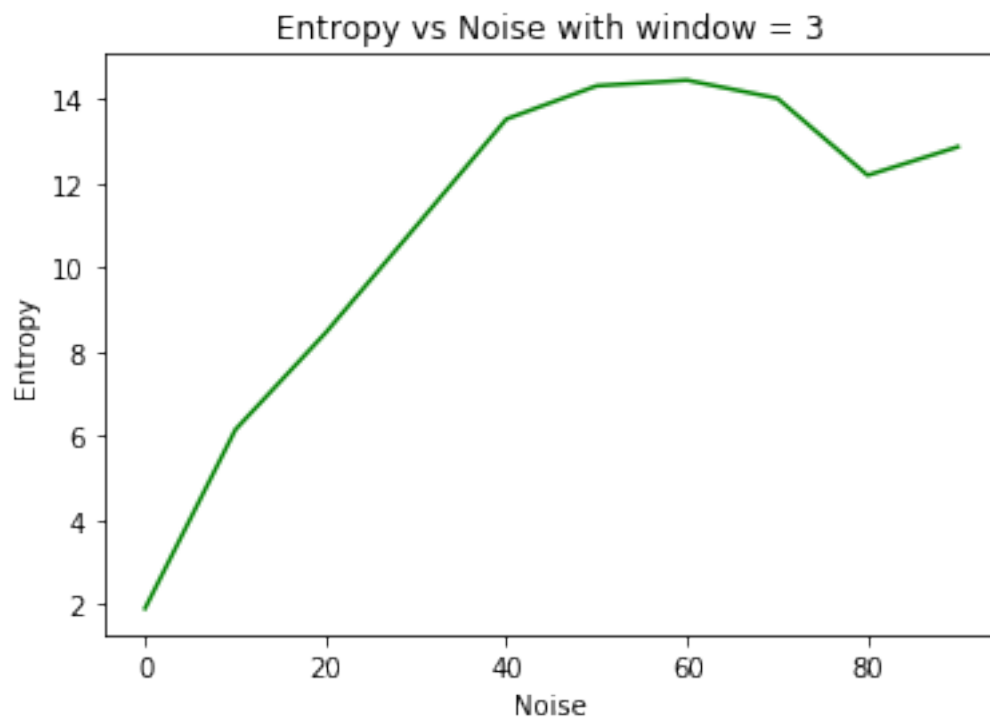
```
In [118]: xxxx
```

```
Out[118]: [0, 10, 20, 30, 40, 50, 60, 70, 80, 90]
```

```
In [119]: yyyy
```

```
Out[119]: [1.9059782130166705,  
5.833869503703472,  
8.146882998185937,  
10.507330121040468,  
13.927450011307299,  
14.301825684532538,  
12.619612365784652,  
15.087570013154586,  
13.689747163330022,  
13.465812334559693]
```

```
In [120]: plt.plot(x,y,'g')  
plt.xlabel('Noise')  
plt.ylabel('Entropy')  
plt.title('Entropy vs Noise with window = 3')  
plt.show()
```



```
In [121]: xxxx = []  
yyyy = []
```



```

for i in range(0,100,10):
    xxxx.append(i)
    yyyy.append(main(1,i))

```

Done!

-26 21 -9 5

You Can use this matrix now.

X\_min= -26

X\_max= 21

Y\_min= -9

Y\_max= 5

And the Matrix Shape: 47 \* 14

<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]

Found Entropy: 0

<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]

Found a sample of class: 0

Found a sample of class: 0

Found Entropy: 0.0

<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]

Found a sample of class: 0

Found a sample of class: 0

Found a sample of class: 0

Found a sample of class: 0

Found Entropy: 0.0

<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]

Found Entropy: 0

<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]

Found Entropy: 0

<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]

Found Entropy: 0

<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]

Found Entropy: 0

<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]

Found Entropy: 0

<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]

Found Entropy: 0

<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]

Found Entropy: 0

<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]

Found Entropy: 0

<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]

Found Entropy: 0

<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]

Found Entropy: 0

<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]

Found Entropy: 0

<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]

Found Entropy: 0

```

<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]

```

Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0

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<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

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<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

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<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0

```



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<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
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<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

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<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]
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Found Entropy: 0
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Found Entropy: 0
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<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

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<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
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<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
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Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

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<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

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<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

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<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

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Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]
Found Entropy: 0

```



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<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
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<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0

```

<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]

```

```

Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]

```

```

Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1

```



```

Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]

```

```

Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]

```

```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 1.2554823251787535
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9

```

```

Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0

```



```

<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]

```

```

Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 0

```

```

Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

```

<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0

```

```

<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0

```



```

<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 202 > X:[ -12 , -11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 204 > X:[ -12 , -11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 206 > X:[ -12 , -11 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 214 > X:[ -11 , -10 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

```

<Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 220 > X:[ -11 , -10 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 221 > X:[ -11 , -10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 222 > X:[ -11 , -10 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 223 > X:[ -11 , -10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 224 > X:[ -11 , -10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 226 > X:[ -10 , -9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 227 > X:[ -10 , -9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 228 > X:[ -10 , -9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 229 > X:[ -10 , -9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 240 > X:[ -9 , -8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 241 > X:[ -9 , -8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 242 > X:[ -9 , -8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 244 > X:[ -9 , -8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 245 > X:[ -9 , -8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 246 > X:[ -9 , -8 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 247 > X:[ -9 , -8 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 249 > X:[ -9 , -8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 250 > X:[ -9 , -8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 251 > X:[ -9 , -8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 252 > X:[ -9 , -8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 260 > X:[ -8 , -7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 261 > X:[ -8 , -7 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 262 > X:[ -8 , -7 ] Y:[ 0 , 1 ]
Found Entropy: 0

```

<Window: 263 > X:[ -8 , -7 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 264 > X:[ -8 , -7 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 265 > X:[ -8 , -7 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 266 > X:[ -8 , -7 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 270 > X:[ -7 , -6 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 272 > X:[ -7 , -6 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 273 > X:[ -7 , -6 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 274 > X:[ -7 , -6 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 275 > X:[ -7 , -6 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 276 > X:[ -7 , -6 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 277 > X:[ -7 , -6 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 278 > X:[ -7 , -6 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 279 > X:[ -7 , -6 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 283 > X:[ -6 , -5 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 284 > X:[ -6 , -5 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 285 > X:[ -6 , -5 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]  
Found Entropy: 0

```

<Window: 287 > X:[ -6 , -5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 294 > X:[ -6 , -5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 296 > X:[ -5 , -4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 297 > X:[ -5 , -4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 298 > X:[ -5 , -4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
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<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]  
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Found Entropy: 0  
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]  
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<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]  
Found Entropy: 0

```

<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]
Found Entropy: 0

```



```

<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]

```

```

Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1

```

```

Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

```

<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1

```

```

Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```



```

Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453

```

```

<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1

```

```

Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]

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```

Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 8.391945190395347
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]

```

Found Entropy: 0  
 <Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5623351446188083  
 <Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0



```

<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]

```

Found Entropy: 0  
 <Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.45056120886630463  
 <Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]

Found Entropy: 0  
 <Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0

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Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0

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<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

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<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
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<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
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Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

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<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0

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<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0

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<Window: 220 > X:[ -11 , -10 ] Y:[ 0 , 1 ]
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Found Entropy: 0
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Found Entropy: 0
<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

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<Window: 244 > X:[ -9 , -8 ] Y:[ -4 , -3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

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<Window: 292 > X:[ -6 , -5 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

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<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

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Found Entropy: 0
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Found Entropy: 0
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

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<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

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<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0

```



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<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]

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Found Entropy: 0  
 <Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]  
 Found Entropy: 0

```

<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

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<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

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<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0

```

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<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]

```

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Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]

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Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0

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<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0

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<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]

```

```

Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2

```

```

Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 14.084730563358754
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0

```

```

<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]

```

Found Entropy: 0  
 <Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5623351446188083  
 <Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0

Found Entropy: 0.6931471805599453  
 <Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]



```

Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]

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Found Entropy: 0  
 <Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]  
 Found Entropy: 0

<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0

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<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0

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<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

```

<Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 202 > X:[ -12 , -11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 204 > X:[ -12 , -11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 206 > X:[ -12 , -11 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 214 > X:[ -11 , -10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 220 > X:[ -11 , -10 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 221 > X:[ -11 , -10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 222 > X:[ -11 , -10 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 223 > X:[ -11 , -10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 224 > X:[ -11 , -10 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 226 > X:[ -10 , -9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 227 > X:[ -10 , -9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 228 > X:[ -10 , -9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 229 > X:[ -10 , -9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 240 > X:[ -9 , -8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 241 > X:[ -9 , -8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 242 > X:[ -9 , -8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 244 > X:[ -9 , -8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 245 > X:[ -9 , -8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 246 > X:[ -9 , -8 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 247 > X:[ -9 , -8 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]
Found Entropy: 0

```



<Window: 249 > X:[ -9 , -8 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 250 > X:[ -9 , -8 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 251 > X:[ -9 , -8 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 252 > X:[ -9 , -8 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 260 > X:[ -8 , -7 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 261 > X:[ -8 , -7 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 262 > X:[ -8 , -7 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 263 > X:[ -8 , -7 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 264 > X:[ -8 , -7 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 265 > X:[ -8 , -7 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 266 > X:[ -8 , -7 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 270 > X:[ -7 , -6 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 272 > X:[ -7 , -6 ] Y:[ -4 , -3 ]  
Found Entropy: 0

```

<Window: 273 > X:[ -7 , -6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 274 > X:[ -7 , -6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 275 > X:[ -7 , -6 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 276 > X:[ -7 , -6 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 277 > X:[ -7 , -6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 278 > X:[ -7 , -6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 279 > X:[ -7 , -6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 283 > X:[ -6 , -5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 284 > X:[ -6 , -5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 285 > X:[ -6 , -5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 287 > X:[ -6 , -5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]
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<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]
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<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]
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<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]
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<Window: 292 > X:[ -6 , -5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 293 > X:[ -6 , -5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 294 > X:[ -6 , -5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 296 > X:[ -5 , -4 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 297 > X:[ -5 , -4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 298 > X:[ -5 , -4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 302 > X:[ -5 , -4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]
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Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
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Found Entropy: 0
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Found Entropy: 0
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
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<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
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<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
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<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0

<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
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<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
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<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
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<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
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<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
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<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
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<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]  
Found Entropy: 0

```

<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]

```



```

Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128

```

```

<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1

```

```

Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]

```

Found Entropy: 0  
 <Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0



```

<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]

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```

Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6730116670092565
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]

```

```

Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 18.71690138410482
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

```

<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]

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Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]

```

Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.8675632284814612
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0

```



```

Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

```

<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

```

<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 202 > X:[ -12 , -11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 204 > X:[ -12 , -11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 206 > X:[ -12 , -11 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 214 > X:[ -11 , -10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 220 > X:[ -11 , -10 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 221 > X:[ -11 , -10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 222 > X:[ -11 , -10 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 223 > X:[ -11 , -10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 224 > X:[ -11 , -10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 226 > X:[ -10 , -9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 227 > X:[ -10 , -9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 228 > X:[ -10 , -9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 229 > X:[ -10 , -9 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 240 > X:[ -9 , -8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 241 > X:[ -9 , -8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 242 > X:[ -9 , -8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 244 > X:[ -9 , -8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 245 > X:[ -9 , -8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 246 > X:[ -9 , -8 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 247 > X:[ -9 , -8 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 249 > X:[ -9 , -8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 250 > X:[ -9 , -8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 251 > X:[ -9 , -8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 252 > X:[ -9 , -8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 260 > X:[ -8 , -7 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 261 > X:[ -8 , -7 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 262 > X:[ -8 , -7 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 263 > X:[ -8 , -7 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 264 > X:[ -8 , -7 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 265 > X:[ -8 , -7 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 266 > X:[ -8 , -7 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 270 > X:[ -7 , -6 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 272 > X:[ -7 , -6 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 273 > X:[ -7 , -6 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 274 > X:[ -7 , -6 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 275 > X:[ -7 , -6 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 276 > X:[ -7 , -6 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 277 > X:[ -7 , -6 ] Y:[ 1 , 2 ]  
Found Entropy: 0



```

<Window: 278 > X:[ -7 , -6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 279 > X:[ -7 , -6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 283 > X:[ -6 , -5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 284 > X:[ -6 , -5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 285 > X:[ -6 , -5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 287 > X:[ -6 , -5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 293 > X:[ -6 , -5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 294 > X:[ -6 , -5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 296 > X:[ -5 , -4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 297 > X:[ -5 , -4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 298 > X:[ -5 , -4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

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<Window: 302 > X:[ -5 , -4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]  
Found Entropy: 0

```

<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

```

<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128

```

```

<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]

```



```

Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453

```

```

<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1

```

```

Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0

```



```

<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]

```

```

Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658

```

```

OKAY: True
-----Done----- 23.804845013831088
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 1

```

```

Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]

```

```

Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 74 > X: [ -21 , -20 ] Y: [ -6 , -5 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 75 > X: [ -21 , -20 ] Y: [ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 76 > X: [ -21 , -20 ] Y: [ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 77 > X: [ -21 , -20 ] Y: [ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 78 > X: [ -21 , -20 ] Y: [ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 79 > X: [ -21 , -20 ] Y: [ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 80 > X: [ -21 , -20 ] Y: [ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 81 > X: [ -21 , -20 ] Y: [ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 82 > X: [ -21 , -20 ] Y: [ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 83 > X: [ -21 , -20 ] Y: [ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 84 > X: [ -21 , -20 ] Y: [ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 85 > X: [ -20 , -19 ] Y: [ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 86 > X: [ -20 , -19 ] Y: [ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 87 > X: [ -20 , -19 ] Y: [ -7 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 88 > X: [ -20 , -19 ] Y: [ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 89 > X: [ -20 , -19 ] Y: [ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 90 > X: [ -20 , -19 ] Y: [ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 91 > X: [ -20 , -19 ] Y: [ -3 , -2 ]  
 Found Entropy: 0

```

<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0

```



```

<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

```

<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 204 > X:[ -12 , -11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 214 > X:[ -11 , -10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 224 > X:[ -11 , -10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
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<Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0

```

```

<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]
Found Entropy: 0
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Found Entropy: 0
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<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]
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Found Entropy: 0
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]
Found Entropy: 0

```

```

<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
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<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]
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<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]
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<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

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<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
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<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0

```



```

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Found Entropy: 0
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

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Found Entropy: 0

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<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
Found Entropy: 0

```

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Found Entropy: 0

```

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<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]  
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<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]  
Found Entropy: 0

```

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Found a sample of class: 1
Found Entropy: 0.0
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Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
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<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

```

<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1

```



```

Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]

```

```

Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0

```

```

<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]

```

```

Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0

```



```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6730116670092565
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 26.82116450204838
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14

```

```

<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0

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<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2

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Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]

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Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0

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<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0

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<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0

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<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0

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<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0

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<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]  
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 <Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 <Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]  
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 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]  
 Found Entropy: 0

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<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]
Found Entropy: 0

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<Window: 240 > X:[ -9 , -8 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 241 > X:[ -9 , -8 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
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<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
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Found Entropy: 0  
<Window: 245 > X:[ -9 , -8 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
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Found Entropy: 0  
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Found Entropy: 0

<Window: 264 > X:[ -8 , -7 ] Y:[ 2 , 3 ]  
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Found Entropy: 0  
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<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 270 > X:[ -7 , -6 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
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Found Entropy: 0  
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<Window: 285 > X:[ -6 , -5 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 287 > X:[ -6 , -5 ] Y:[ -3 , -2 ]  
Found Entropy: 0

<Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 292 > X:[ -6 , -5 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 293 > X:[ -6 , -5 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 294 > X:[ -6 , -5 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 296 > X:[ -5 , -4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 297 > X:[ -5 , -4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 298 > X:[ -5 , -4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 302 > X:[ -5 , -4 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]  
Found Entropy: 0

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<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]
Found Entropy: 0

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<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

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<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
Found Entropy: 0

```

<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]

```

Found Entropy: 0  
 <Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]  
 Found Entropy: 0

```

<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0

```

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<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0

```



```

<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]

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```

Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

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<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]

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```

Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453

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<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0549201679861442
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]

```

```

Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 24.74648285936983
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```



```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]

```

```

Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0

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<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]

```

```

Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]

```

```

Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

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<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

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<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0

```



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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0  
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0

```

<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]

```

```

Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0

```

```

Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]

```



```

Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2

```

```

Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]

```

```

Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 23.214193363079715
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0

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<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]

```



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Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]

```

Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]

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Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]

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Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0

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<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]
Found Entropy: 0

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<Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]
Found Entropy: 0

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<Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

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<Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]
Found Entropy: 0

```



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<Window: 202 > X:[ -12 , -11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 204 > X:[ -12 , -11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 205 > X:[ -12 , -11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 206 > X:[ -12 , -11 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 207 > X:[ -12 , -11 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 208 > X:[ -12 , -11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 209 > X:[ -12 , -11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 210 > X:[ -12 , -11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 211 > X:[ -11 , -10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 212 > X:[ -11 , -10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 213 > X:[ -11 , -10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 214 > X:[ -11 , -10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 215 > X:[ -11 , -10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 216 > X:[ -11 , -10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 217 > X:[ -11 , -10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 218 > X:[ -11 , -10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 219 > X:[ -11 , -10 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 220 > X:[ -11 , -10 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 221 > X:[ -11 , -10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 222 > X:[ -11 , -10 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 223 > X:[ -11 , -10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 224 > X:[ -11 , -10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 225 > X:[ -10 , -9 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

<Window: 226 > X:[ -10 , -9 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 227 > X:[ -10 , -9 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 228 > X:[ -10 , -9 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 229 > X:[ -10 , -9 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 240 > X:[ -9 , -8 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 241 > X:[ -9 , -8 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 242 > X:[ -9 , -8 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 243 > X:[ -9 , -8 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 244 > X:[ -9 , -8 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 245 > X:[ -9 , -8 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 246 > X:[ -9 , -8 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 247 > X:[ -9 , -8 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 249 > X:[ -9 , -8 ] Y:[ 1 , 2 ]  
Found Entropy: 0

<Window: 250 > X:[ -9 , -8 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 251 > X:[ -9 , -8 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 252 > X:[ -9 , -8 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 260 > X:[ -8 , -7 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 261 > X:[ -8 , -7 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 262 > X:[ -8 , -7 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 263 > X:[ -8 , -7 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 264 > X:[ -8 , -7 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 265 > X:[ -8 , -7 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 266 > X:[ -8 , -7 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 269 > X:[ -7 , -6 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 270 > X:[ -7 , -6 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 272 > X:[ -7 , -6 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 273 > X:[ -7 , -6 ] Y:[ -3 , -2 ]  
Found Entropy: 0

```

<Window: 274 > X:[ -7 , -6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 275 > X:[ -7 , -6 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 276 > X:[ -7 , -6 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 277 > X:[ -7 , -6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 278 > X:[ -7 , -6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 279 > X:[ -7 , -6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 282 > X:[ -6 , -5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 283 > X:[ -6 , -5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 284 > X:[ -6 , -5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 285 > X:[ -6 , -5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 286 > X:[ -6 , -5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 287 > X:[ -6 , -5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 292 > X:[ -6 , -5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 293 > X:[ -6 , -5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 294 > X:[ -6 , -5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 296 > X:[ -5 , -4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 297 > X:[ -5 , -4 ] Y:[ -7 , -6 ]
Found Entropy: 0

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<Window: 298 > X:[ -5 , -4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 302 > X:[ -5 , -4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

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<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

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<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

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<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]
Found Entropy: 0

```



```

<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

```

<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]

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```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]

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```

Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]

```

```

Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2

```



```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]

```

Found Entropy: 0  
 <Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0

```

<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0

```

```

<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.5004024235381879
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 25.162023873211908
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1

```

Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.5623351446188083  
 <Window: 32 > X: [ -24 , -23 ] Y: [ -6 , -5 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 33 > X: [ -24 , -23 ] Y: [ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 34 > X: [ -24 , -23 ] Y: [ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 35 > X: [ -24 , -23 ] Y: [ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 36 > X: [ -24 , -23 ] Y: [ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 37 > X: [ -24 , -23 ] Y: [ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X: [ -24 , -23 ] Y: [ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X: [ -24 , -23 ] Y: [ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X: [ -24 , -23 ] Y: [ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X: [ -24 , -23 ] Y: [ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X: [ -24 , -23 ] Y: [ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X: [ -23 , -22 ] Y: [ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X: [ -23 , -22 ] Y: [ -8 , -7 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 45 > X: [ -23 , -22 ] Y: [ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 46 > X: [ -23 , -22 ] Y: [ -6 , -5 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 47 > X: [ -23 , -22 ] Y: [ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X: [ -23 , -22 ] Y: [ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X: [ -23 , -22 ] Y: [ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X: [ -23 , -22 ] Y: [ -2 , -1 ]



```

Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.45056120886630463
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179

```

```

<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0

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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0

```

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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0

```

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Found Entropy: 0

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Found Entropy: 0

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Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0

<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]  
Found Entropy: 0



```

<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 0

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Found a sample of class: 0
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]

```

Found Entropy: 0  
 <Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 1.0397207708399179  
 <Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]  
 Found Entropy: 0

```

<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0

```

```

<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]

```

```

Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]

```



Found Entropy: 0  
 <Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 0

```

Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

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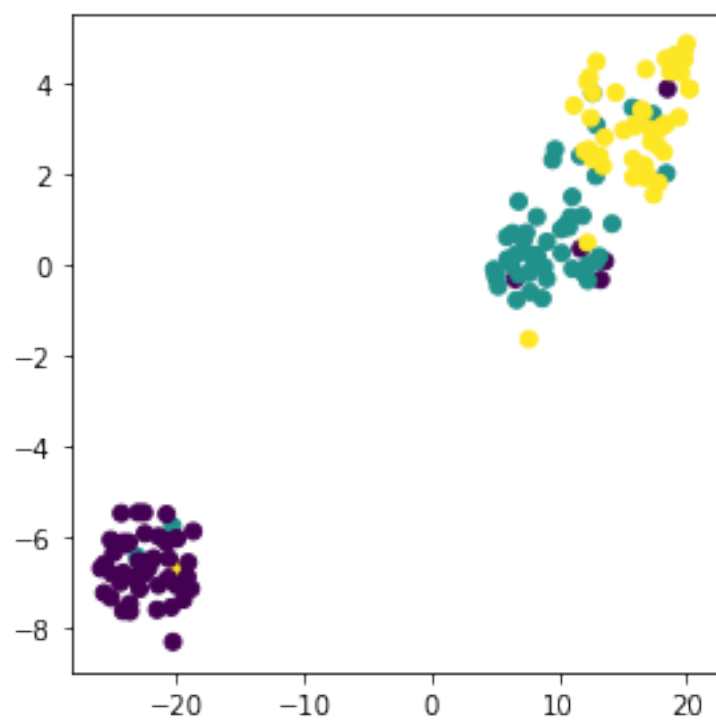
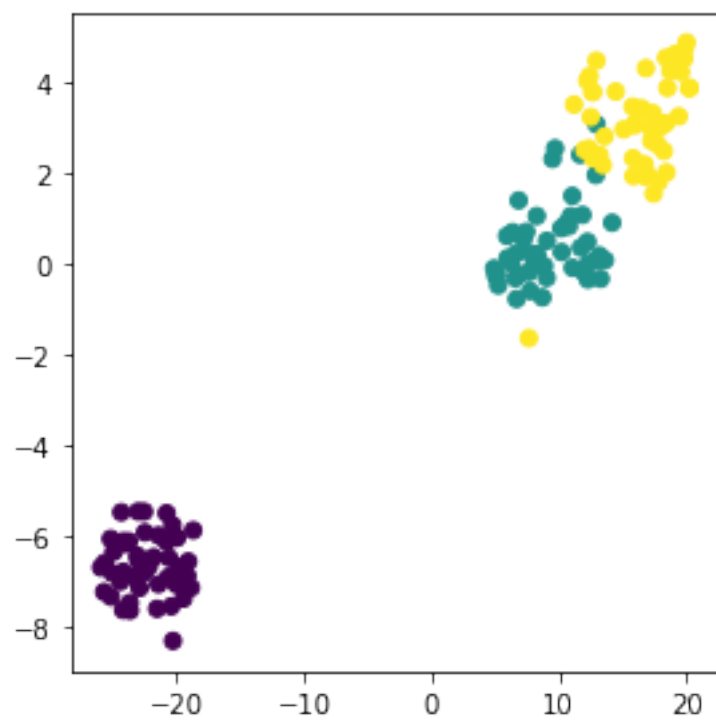
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]

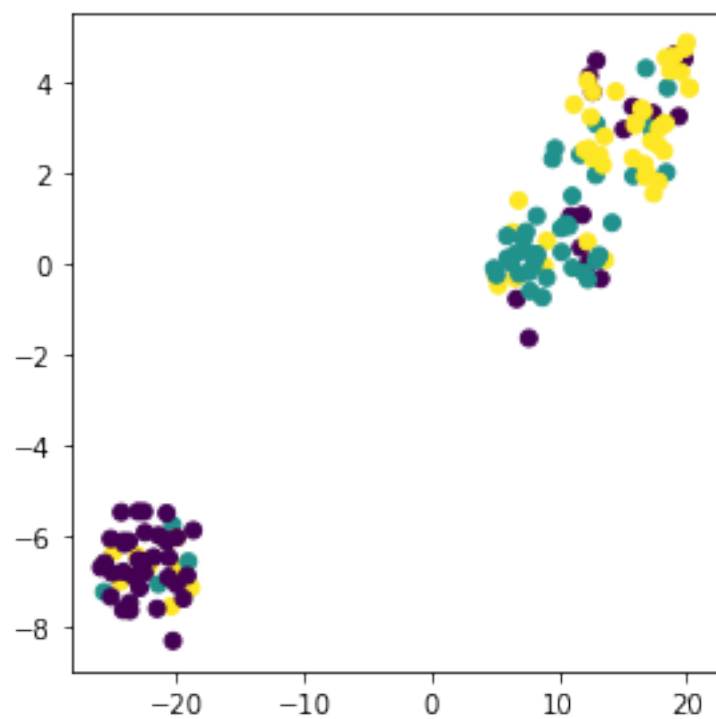
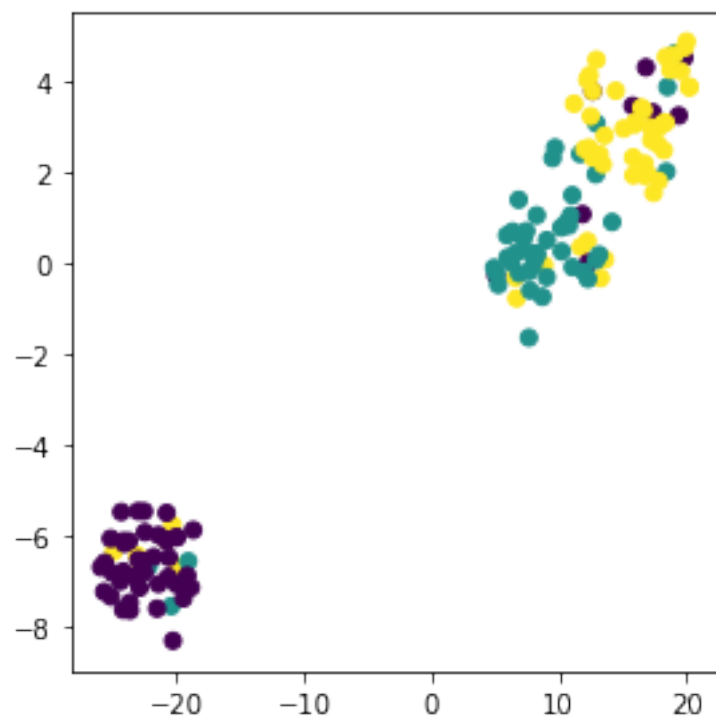
```

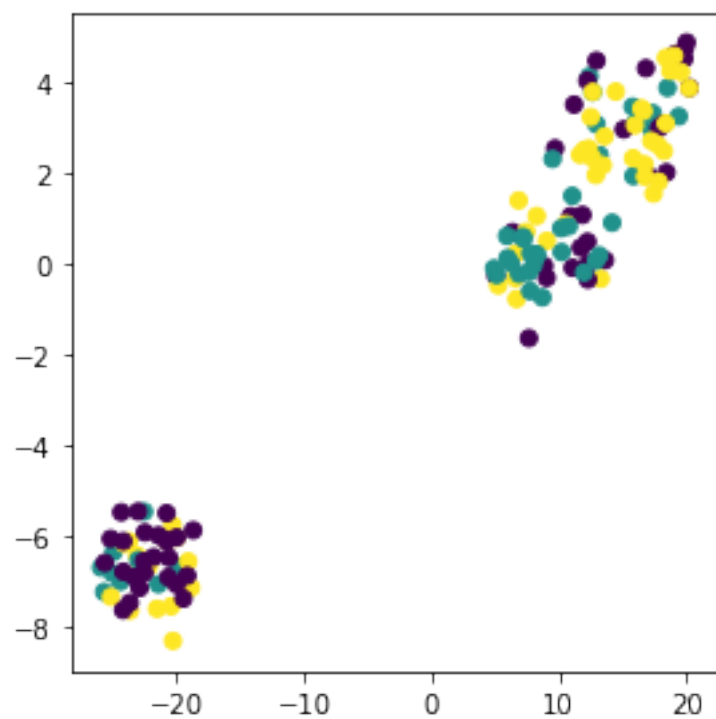
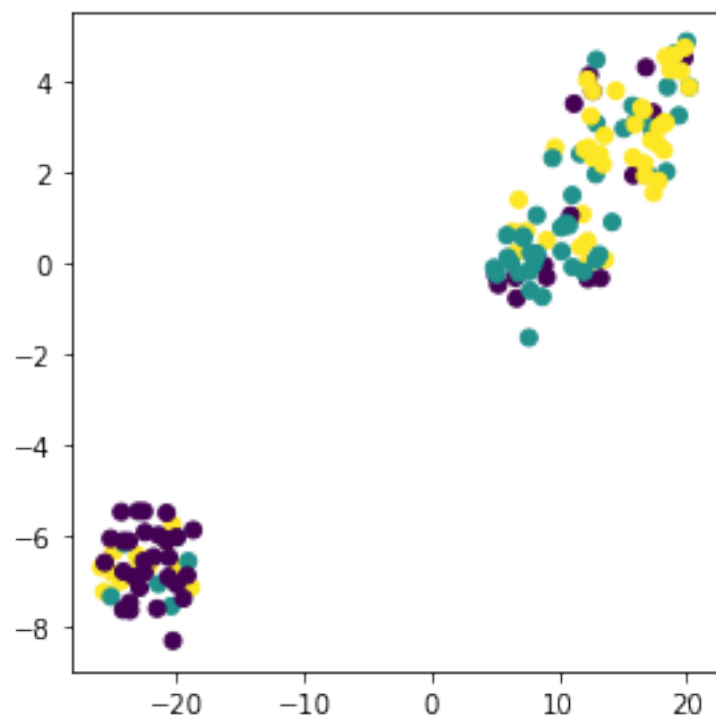
```

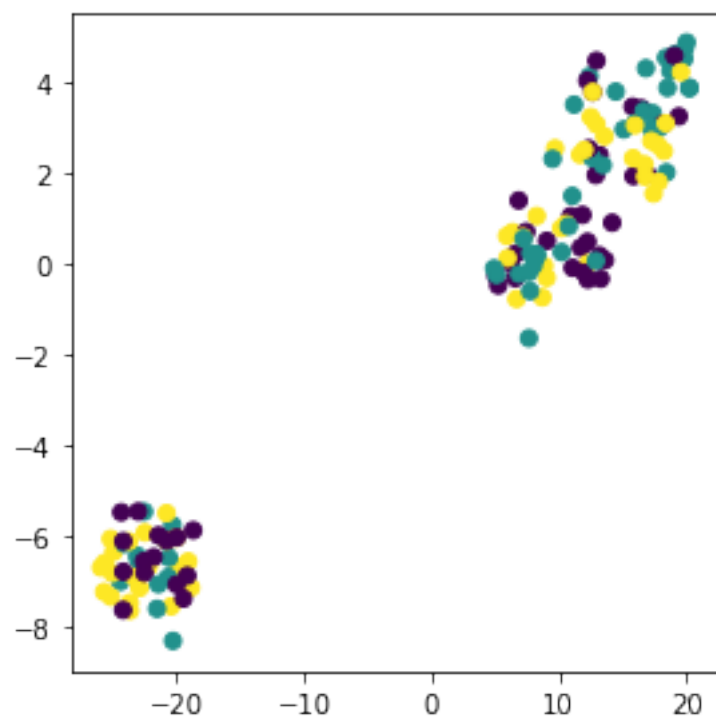
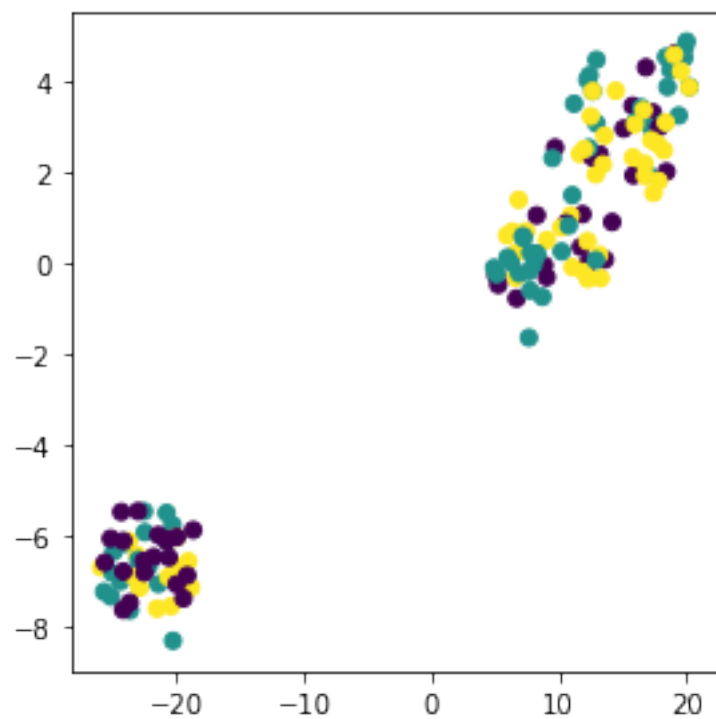
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6730116670092565
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 20.972251062483927

```

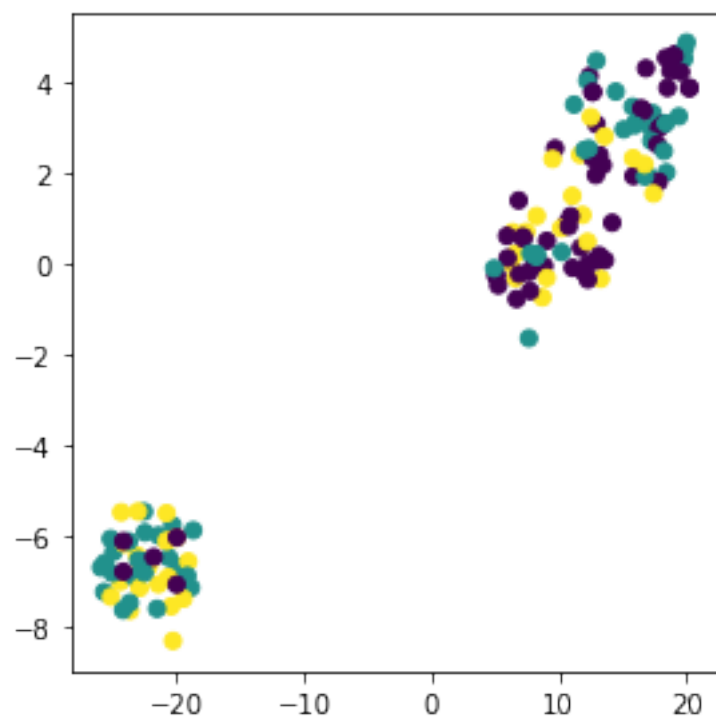
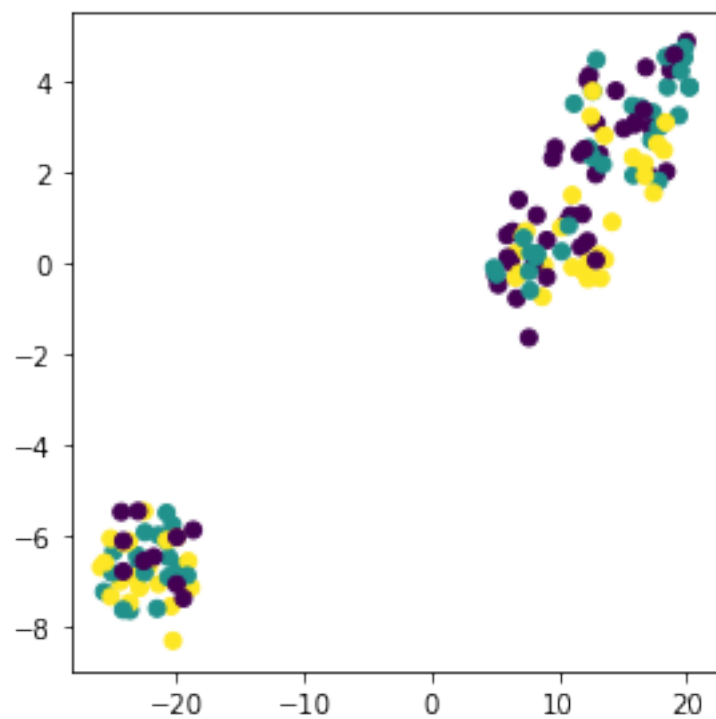




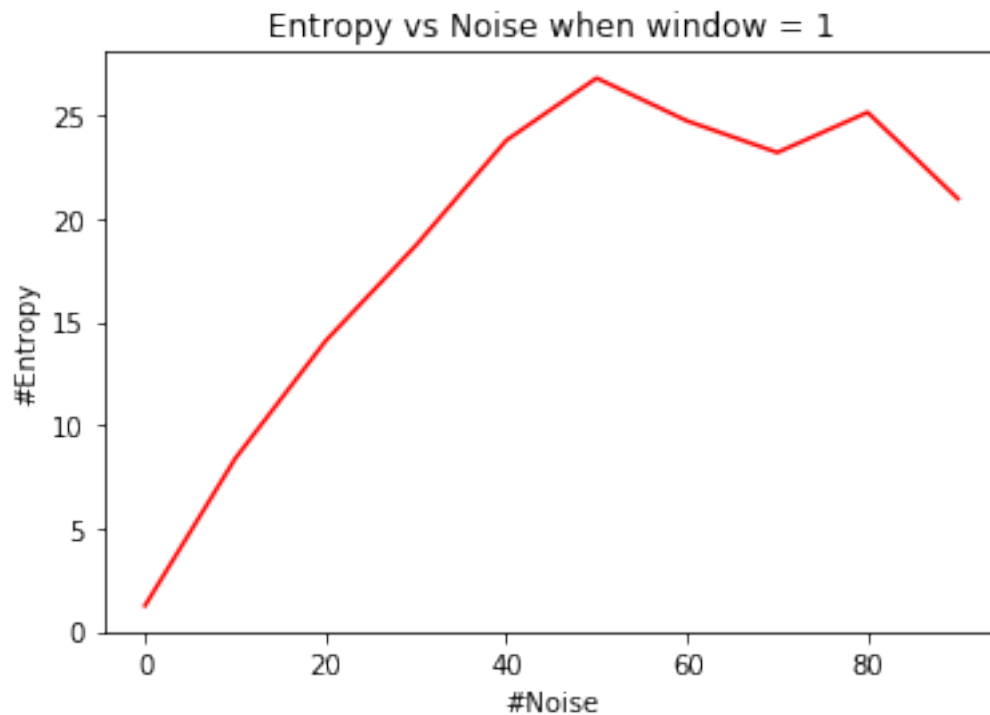








```
In [122]: plt.plot(xxxx,yyyy,'r')
plt.xlabel('#Noise')
plt.ylabel('#Entropy')
plt.title('Entropy vs Noise when window = 1')
plt.show()
```



```
In [123]: dataSet= [ [],[], [],[], [],[], [],[] ]
for window in [1,3,5]:
    for i in range(0,100,10):
        dataSet[window][0].append(i)
        dataSet[window][1].append(main(window,i))
```

Done!

-26 21 -9 5

You Can use this matrix now.

X\_min= -26

X\_max= 21

Y\_min= -9

Y\_max= 5

And the Matrix Shape: 47 \* 14

<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]

```

Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]

```

```

Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0

```

```

<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]

```

Found Entropy: 0  
 <Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]



Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
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 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]

Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]  
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 <Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]

Found Entropy: 0  
 <Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]  
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 Found Entropy: 0  
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 <Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]  
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Found Entropy: 0  
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 <Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]



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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0

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Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
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Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
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Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
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Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]

```



```

Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]

```

```

Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

```

<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0

```



```

<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 1.2554823251787535
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0

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<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0

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<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
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Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

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<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
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Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0  
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<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]

```

Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]

```



Found Entropy: 0  
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]

Found Entropy: 0  
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]

Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]

```

Found Entropy: 0
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

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<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1

```

```

Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]

```

```

Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]

```

Found Entropy: 0  
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]  
Found a sample of class: 1  
Found Entropy: 0.0  
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]  
Found a sample of class: 1  
Found Entropy: 0.0  
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]  
Found a sample of class: 1  
Found a sample of class: 1  
Found Entropy: 0.0  
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]  
Found a sample of class: 1  
Found a sample of class: 1  
Found a sample of class: 1  
Found a sample of class: 1  
Found Entropy: 0.0  
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]  
Found a sample of class: 1  
Found Entropy: 0.0



```

<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0

```

```

<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]

```

```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]

```

```

Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

```

<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 8.73851878067532
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]

```



```

Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0

```

```

<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.45056120886630463
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0

```

```

<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]

```

Found Entropy: 0  
 <Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]

Found Entropy: 0  
 <Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]

Found Entropy: 0  
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Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0

```

```

<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]

```

Found Entropy: 0  
 <Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]  
 Found a sample of class: 1

```

Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0

```

```

<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0

```



```

<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 1

```

```

Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0

```

```

<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]

```

```

Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]

```

Found Entropy: 0  
 <Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0

```

<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2

```

```

Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 13.853681503172105
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]

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Found Entropy: 0  
 <Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5623351446188083  
 <Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0



```

Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0

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<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]

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Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]

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Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]

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Found Entropy: 0  
 <Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
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 <Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]

Found Entropy: 0  
 <Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]  
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 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
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 <Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]  
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 <Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]  
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Found Entropy: 0  
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 <Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]

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Found Entropy: 0  
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]  
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Found Entropy: 0  
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
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Found Entropy: 0  
<Window: 237 > X:[ -10 , -9 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
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<Window: 246 > X:[ -9 , -8 ] Y:[ -2 , -1 ]  
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<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]  
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Found Entropy: 0  
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Found Entropy: 0  
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]

Found Entropy: 0  
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 257 > X:[ -8 , -7 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 258 > X:[ -8 , -7 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 259 > X:[ -8 , -7 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 260 > X:[ -8 , -7 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 261 > X:[ -8 , -7 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
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Found Entropy: 0  
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Found Entropy: 0  
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Found Entropy: 0  
<Window: 266 > X:[ -8 , -7 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 267 > X:[ -7 , -6 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 268 > X:[ -7 , -6 ] Y:[ -8 , -7 ]  
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Found Entropy: 0  
<Window: 271 > X:[ -7 , -6 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
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Found Entropy: 0  
<Window: 273 > X:[ -7 , -6 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 274 > X:[ -7 , -6 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 275 > X:[ -7 , -6 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 276 > X:[ -7 , -6 ] Y:[ 0 , 1 ]  
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<Window: 277 > X:[ -7 , -6 ] Y:[ 1 , 2 ]  
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<Window: 278 > X:[ -7 , -6 ] Y:[ 2 , 3 ]  
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<Window: 279 > X:[ -7 , -6 ] Y:[ 3 , 4 ]

Found Entropy: 0  
 <Window: 280 > X:[ -7 , -6 ] Y:[ 4 , 5 ]  
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 <Window: 281 > X:[ -6 , -5 ] Y:[ -9 , -8 ]  
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 <Window: 288 > X:[ -6 , -5 ] Y:[ -2 , -1 ]  
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 <Window: 289 > X:[ -6 , -5 ] Y:[ -1 , 0 ]  
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 <Window: 290 > X:[ -6 , -5 ] Y:[ 0 , 1 ]  
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 <Window: 291 > X:[ -6 , -5 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 292 > X:[ -6 , -5 ] Y:[ 2 , 3 ]  
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 <Window: 295 > X:[ -5 , -4 ] Y:[ -9 , -8 ]  
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 Found Entropy: 0  
 <Window: 299 > X:[ -5 , -4 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 300 > X:[ -5 , -4 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 301 > X:[ -5 , -4 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 302 > X:[ -5 , -4 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]

Found Entropy: 0  
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 <Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]  
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 <Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]  
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 <Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]  
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 <Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]

```

Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
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<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
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<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
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<Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]

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Found Entropy: 0  
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 <Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
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 <Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]  
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 <Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]

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Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1

```

Found Entropy: 0.0  
 <Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 1.0986122886681096  
 <Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]  
 Found Entropy: 0

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<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]

```

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Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]

```

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Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1

```

```

Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0

```



```

<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found Entropy: 0.0
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]

```

Found Entropy: 0  
 <Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0

```

<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 18.878635726235473
Done!

```

```

-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]

```

Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]

Found Entropy: 0  
 <Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0



```

<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]

```

Found Entropy: 0  
 <Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
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 <Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]

Found Entropy: 0  
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]

Found Entropy: 0  
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]



```

Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]

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Found Entropy: 0  
 <Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 1.0986122886681096  
 <Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 1.0986122886681096  
 <Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]  
 Found Entropy: 0

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<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 1

```

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Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]

```

```

Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]

```

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Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2

```

Found Entropy: 0.6931471805599453  
 <Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 1.0986122886681096  
 <Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0

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<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2

```



Found Entropy: 0.6931471805599453  
 <Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0

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<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]

```

Found Entropy: 0  
 <Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2

```

Found a sample of class: 2
Found Entropy: 0.6730116670092565
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 25.02940503282032
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]

```

```

Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0

```

```

<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]

```

Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0397207708399179  
 <Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]  
 Found a sample of class: 0

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.8675632284814612
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0

```



```

<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]

```

```

Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]

```

Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]

Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 148 > X:[ -16 , -15 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 149 > X:[ -16 , -15 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 150 > X:[ -16 , -15 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 151 > X:[ -16 , -15 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 152 > X:[ -16 , -15 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 155 > X:[ -15 , -14 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 166 > X:[ -15 , -14 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 167 > X:[ -15 , -14 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 168 > X:[ -15 , -14 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]

Found Entropy: 0  
 <Window: 170 > X:[ -14 , -13 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 173 > X:[ -14 , -13 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 174 > X:[ -14 , -13 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 175 > X:[ -14 , -13 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 176 > X:[ -14 , -13 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 177 > X:[ -14 , -13 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 178 > X:[ -14 , -13 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 179 > X:[ -14 , -13 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 180 > X:[ -14 , -13 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 181 > X:[ -14 , -13 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 182 > X:[ -14 , -13 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 183 > X:[ -13 , -12 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 185 > X:[ -13 , -12 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 190 > X:[ -13 , -12 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 191 > X:[ -13 , -12 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 192 > X:[ -13 , -12 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 193 > X:[ -13 , -12 ] Y:[ 1 , 2 ]

Found Entropy: 0  
 <Window: 194 > X:[ -13 , -12 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 195 > X:[ -13 , -12 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 196 > X:[ -13 , -12 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 197 > X:[ -12 , -11 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 198 > X:[ -12 , -11 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 199 > X:[ -12 , -11 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 200 > X:[ -12 , -11 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 201 > X:[ -12 , -11 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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Found Entropy: 0
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<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0

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Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
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Found a sample of class: 1
Found a sample of class: 1
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 <Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 1

```

Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]

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Found Entropy: 0  
 <Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]

Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.5623351446188083  
 <Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0

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<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0

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<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]

```

Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]  
 Found Entropy: 0



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<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0

```

Found a sample of class: 2  
 Found Entropy: 1.0986122886681096  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 1.0549201679861442  
 <Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]  
 Found Entropy: 0

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<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 28.127269243771856
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]

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```

Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0

```

```

<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0

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<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0

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<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0

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Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]

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Found Entropy: 0  
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 Found Entropy: 0  
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Found Entropy: 0
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<Window: 303 > X:[ -5 , -4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 304 > X:[ -5 , -4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 305 > X:[ -5 , -4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 306 > X:[ -5 , -4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 307 > X:[ -5 , -4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 308 > X:[ -5 , -4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 309 > X:[ -4 , -3 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 310 > X:[ -4 , -3 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 311 > X:[ -4 , -3 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 312 > X:[ -4 , -3 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 313 > X:[ -4 , -3 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 314 > X:[ -4 , -3 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 315 > X:[ -4 , -3 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 316 > X:[ -4 , -3 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 317 > X:[ -4 , -3 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 318 > X:[ -4 , -3 ] Y:[ 0 , 1 ]

```

```

Found Entropy: 0
<Window: 319 > X:[ -4 , -3 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 320 > X:[ -4 , -3 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 321 > X:[ -4 , -3 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 322 > X:[ -4 , -3 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 323 > X:[ -3 , -2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 324 > X:[ -3 , -2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 325 > X:[ -3 , -2 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 326 > X:[ -3 , -2 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 327 > X:[ -3 , -2 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 328 > X:[ -3 , -2 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 329 > X:[ -3 , -2 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 330 > X:[ -3 , -2 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 331 > X:[ -3 , -2 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 332 > X:[ -3 , -2 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 333 > X:[ -3 , -2 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 334 > X:[ -3 , -2 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 335 > X:[ -3 , -2 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 336 > X:[ -3 , -2 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 337 > X:[ -2 , -1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 338 > X:[ -2 , -1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 339 > X:[ -2 , -1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 340 > X:[ -2 , -1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 341 > X:[ -2 , -1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 342 > X:[ -2 , -1 ] Y:[ -4 , -3 ]

```

Found Entropy: 0  
 <Window: 343 > X:[ -2 , -1 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 344 > X:[ -2 , -1 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 345 > X:[ -2 , -1 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 346 > X:[ -2 , -1 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 347 > X:[ -2 , -1 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 348 > X:[ -2 , -1 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 349 > X:[ -2 , -1 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 350 > X:[ -2 , -1 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 351 > X:[ -1 , 0 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 352 > X:[ -1 , 0 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 353 > X:[ -1 , 0 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 354 > X:[ -1 , 0 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 355 > X:[ -1 , 0 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 356 > X:[ -1 , 0 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 357 > X:[ -1 , 0 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 358 > X:[ -1 , 0 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 359 > X:[ -1 , 0 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 360 > X:[ -1 , 0 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 361 > X:[ -1 , 0 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 362 > X:[ -1 , 0 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]

Found Entropy: 0  
 <Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]

Found Entropy: 0  
 <Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]

```

Found Entropy: 0
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0

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<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128

```

```

<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]

```



```

Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

```

<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0

```

```

<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found Entropy: 0.0

```

```

<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]

```

```

Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]
Found Entropy: 0

```



```

<Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0549201679861442
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 26.30719326841124
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]

```

Found Entropy: 0  
 <Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]  
 Found Entropy: 0

```

<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453

```

```

<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]

```

Found Entropy: 0  
 <Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]



Found Entropy: 0  
 <Window: 132 > X:[ -17 , -16 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 138 > X:[ -17 , -16 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 139 > X:[ -17 , -16 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 140 > X:[ -17 , -16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 142 > X:[ -16 , -15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 143 > X:[ -16 , -15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 147 > X:[ -16 , -15 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
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Found Entropy: 0  
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Found Entropy: 0  
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]

```

Found Entropy: 0
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0

```

```

<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0

```

```

<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]

```

```

Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]

```



Found Entropy: 0  
 <Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 1.0397207708399179  
 <Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]  
 Found Entropy: 0

```

<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 2

```

```

Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 1.0986122886681096
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]

```

```

Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0

```

```

<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2

```

```

Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]

```

Found Entropy: 0  
 <Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 1.0986122886681096  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6931471805599453  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0

```

<Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0549201679861442
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453

```



```

<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 25.858124148322695
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]

```

```

Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5623351446188083

```

```

<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

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<Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found a sample of class: 2

```

```

Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]

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Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 100 > X:[ -19 , -18 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 101 > X:[ -19 , -18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 102 > X:[ -19 , -18 ] Y:[ -6 , -5 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 103 > X:[ -19 , -18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 104 > X:[ -19 , -18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 105 > X:[ -19 , -18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 106 > X:[ -19 , -18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 107 > X:[ -19 , -18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 108 > X:[ -19 , -18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 109 > X:[ -19 , -18 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 110 > X:[ -19 , -18 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 111 > X:[ -19 , -18 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 112 > X:[ -19 , -18 ] Y:[ 4 , 5 ]

```

Found Entropy: 0  
 <Window: 113 > X:[ -18 , -17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 114 > X:[ -18 , -17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 115 > X:[ -18 , -17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 116 > X:[ -18 , -17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 117 > X:[ -18 , -17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 118 > X:[ -18 , -17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 119 > X:[ -18 , -17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 120 > X:[ -18 , -17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 121 > X:[ -18 , -17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 122 > X:[ -18 , -17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 123 > X:[ -18 , -17 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 124 > X:[ -18 , -17 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 125 > X:[ -18 , -17 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 126 > X:[ -18 , -17 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 127 > X:[ -17 , -16 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 128 > X:[ -17 , -16 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 129 > X:[ -17 , -16 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 130 > X:[ -17 , -16 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 131 > X:[ -17 , -16 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 133 > X:[ -17 , -16 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 134 > X:[ -17 , -16 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 135 > X:[ -17 , -16 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 136 > X:[ -17 , -16 ] Y:[ 0 , 1 ]

Found Entropy: 0  
 <Window: 137 > X:[ -17 , -16 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 141 > X:[ -16 , -15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 144 > X:[ -16 , -15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 145 > X:[ -16 , -15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 146 > X:[ -16 , -15 ] Y:[ -4 , -3 ]  
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 Found Entropy: 0  
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 <Window: 153 > X:[ -16 , -15 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 154 > X:[ -16 , -15 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 156 > X:[ -15 , -14 ] Y:[ -8 , -7 ]  
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 <Window: 157 > X:[ -15 , -14 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 158 > X:[ -15 , -14 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 159 > X:[ -15 , -14 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 160 > X:[ -15 , -14 ] Y:[ -4 , -3 ]



Found Entropy: 0  
 <Window: 161 > X:[ -15 , -14 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 162 > X:[ -15 , -14 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 163 > X:[ -15 , -14 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 164 > X:[ -15 , -14 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 165 > X:[ -15 , -14 ] Y:[ 1 , 2 ]  
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 <Window: 169 > X:[ -14 , -13 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
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 <Window: 171 > X:[ -14 , -13 ] Y:[ -7 , -6 ]  
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 <Window: 172 > X:[ -14 , -13 ] Y:[ -6 , -5 ]  
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 <Window: 184 > X:[ -13 , -12 ] Y:[ -8 , -7 ]

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 <Window: 186 > X:[ -13 , -12 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 187 > X:[ -13 , -12 ] Y:[ -5 , -4 ]  
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 <Window: 188 > X:[ -13 , -12 ] Y:[ -4 , -3 ]  
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 <Window: 189 > X:[ -13 , -12 ] Y:[ -3 , -2 ]  
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 <Window: 203 > X:[ -12 , -11 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
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 Found Entropy: 0  
 <Window: 228 > X:[ -10 , -9 ] Y:[ -6 , -5 ]  
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 <Window: 229 > X:[ -10 , -9 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 230 > X:[ -10 , -9 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 231 > X:[ -10 , -9 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 232 > X:[ -10 , -9 ] Y:[ -2 , -1 ]

```

Found Entropy: 0
<Window: 233 > X:[ -10 , -9 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 234 > X:[ -10 , -9 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 235 > X:[ -10 , -9 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 236 > X:[ -10 , -9 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 238 > X:[ -10 , -9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 239 > X:[ -9 , -8 ] Y:[ -9 , -8 ]
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Found Entropy: 0
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<Window: 248 > X:[ -9 , -8 ] Y:[ 0 , 1 ]
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Found Entropy: 0
<Window: 250 > X:[ -9 , -8 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 253 > X:[ -8 , -7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 254 > X:[ -8 , -7 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 255 > X:[ -8 , -7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 256 > X:[ -8 , -7 ] Y:[ -6 , -5 ]

```

Found Entropy: 0  
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 Found Entropy: 0  
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 <Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]

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Found Entropy: 0
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<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]
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<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
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Found Entropy: 0
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<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]

```

Found Entropy: 0  
 <Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]  
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 <Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]  
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 Found Entropy: 0  
 <Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]  
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 Found Entropy: 0.0  
 <Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]  
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 <Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]  
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 <Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]  
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 <Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]  
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 <Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]  
 Found Entropy: 0

```

<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found Entropy: 0.0
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Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
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Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
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Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]

```

```

Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
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Found Entropy: 0
<Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0397207708399179
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Found a sample of class: 0
Found Entropy: 0.0
<Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]
Found Entropy: 0
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Found Entropy: 0
<Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]
Found Entropy: 0

```



```

<Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]

```

```

Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]
Found Entropy: 0

```

```

<Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0

```

```

<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]

```

```

Found a sample of class: 0
Found Entropy: 0.0
<Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]

```

Found Entropy: 0  
 <Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]  
 Found Entropy: 0

```

<Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.5004024235381879
<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 0
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 21.792007983531576
Done!
-26 21 -9 5
You Can use this matrix now.

```

```

X_min= -26
X_max= 21
Y_min= -9
Y_max= 5
And the Matrix Shape: 47 * 14
<Window: 1 > X:[ -26 , -25 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 2 > X:[ -26 , -25 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -25 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 4 > X:[ -26 , -25 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -25 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 6 > X:[ -26 , -25 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 7 > X:[ -26 , -25 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 8 > X:[ -26 , -25 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 9 > X:[ -26 , -25 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 10 > X:[ -26 , -25 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 11 > X:[ -26 , -25 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 12 > X:[ -26 , -25 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 13 > X:[ -26 , -25 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 14 > X:[ -26 , -25 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 15 > X:[ -25 , -24 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 16 > X:[ -25 , -24 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 17 > X:[ -25 , -24 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2

```



```

Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 18 > X:[ -25 , -24 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 19 > X:[ -25 , -24 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ -25 , -24 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 21 > X:[ -25 , -24 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 22 > X:[ -25 , -24 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 23 > X:[ -25 , -24 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -25 , -24 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 25 > X:[ -25 , -24 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 26 > X:[ -25 , -24 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 27 > X:[ -25 , -24 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 28 > X:[ -25 , -24 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 29 > X:[ -24 , -23 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 30 > X:[ -24 , -23 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 31 > X:[ -24 , -23 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 32 > X:[ -24 , -23 ] Y:[ -6 , -5 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 33 > X:[ -24 , -23 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 34 > X:[ -24 , -23 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 35 > X:[ -24 , -23 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 36 > X:[ -24 , -23 ] Y:[ -2 , -1 ]

```

Found Entropy: 0  
 <Window: 37 > X:[ -24 , -23 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -24 , -23 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -24 , -23 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -24 , -23 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -24 , -23 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -24 , -23 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -23 , -22 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -23 , -22 ] Y:[ -8 , -7 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 45 > X:[ -23 , -22 ] Y:[ -7 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.5623351446188083  
 <Window: 46 > X:[ -23 , -22 ] Y:[ -6 , -5 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 47 > X:[ -23 , -22 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ -23 , -22 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ -23 , -22 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ -23 , -22 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ -23 , -22 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ -23 , -22 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ -23 , -22 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 54 > X:[ -23 , -22 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 55 > X:[ -23 , -22 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ -23 , -22 ] Y:[ 4 , 5 ]  
 Found Entropy: 0

```

<Window: 57 > X:[ -22 , -21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 58 > X:[ -22 , -21 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 59 > X:[ -22 , -21 ] Y:[ -7 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 60 > X:[ -22 , -21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 61 > X:[ -22 , -21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 62 > X:[ -22 , -21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ -22 , -21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 64 > X:[ -22 , -21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 65 > X:[ -22 , -21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 66 > X:[ -22 , -21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 67 > X:[ -22 , -21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 68 > X:[ -22 , -21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 69 > X:[ -22 , -21 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 70 > X:[ -22 , -21 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 71 > X:[ -21 , -20 ] Y:[ -9 , -8 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 72 > X:[ -21 , -20 ] Y:[ -8 , -7 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0986122886681096
<Window: 73 > X:[ -21 , -20 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6931471805599453

```

```

<Window: 74 > X:[ -21 , -20 ] Y:[ -6 , -5 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 75 > X:[ -21 , -20 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 76 > X:[ -21 , -20 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 77 > X:[ -21 , -20 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 78 > X:[ -21 , -20 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 79 > X:[ -21 , -20 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 80 > X:[ -21 , -20 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 81 > X:[ -21 , -20 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 82 > X:[ -21 , -20 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 83 > X:[ -21 , -20 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 84 > X:[ -21 , -20 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 85 > X:[ -20 , -19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 86 > X:[ -20 , -19 ] Y:[ -8 , -7 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 87 > X:[ -20 , -19 ] Y:[ -7 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.0397207708399179
<Window: 88 > X:[ -20 , -19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 89 > X:[ -20 , -19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 90 > X:[ -20 , -19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 91 > X:[ -20 , -19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 92 > X:[ -20 , -19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 93 > X:[ -20 , -19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 94 > X:[ -20 , -19 ] Y:[ 0 , 1 ]

```

```

Found Entropy: 0
<Window: 95 > X:[ -20 , -19 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 96 > X:[ -20 , -19 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 97 > X:[ -20 , -19 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 98 > X:[ -20 , -19 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 99 > X:[ -19 , -18 ] Y:[ -9 , -8 ]
Found Entropy: 0
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<Window: 363 > X:[ -1 , 0 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 364 > X:[ -1 , 0 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 365 > X:[ 0 , 1 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 366 > X:[ 0 , 1 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 367 > X:[ 0 , 1 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 368 > X:[ 0 , 1 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 369 > X:[ 0 , 1 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 370 > X:[ 0 , 1 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 371 > X:[ 0 , 1 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 372 > X:[ 0 , 1 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 373 > X:[ 0 , 1 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 374 > X:[ 0 , 1 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 375 > X:[ 0 , 1 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 376 > X:[ 0 , 1 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 377 > X:[ 0 , 1 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 378 > X:[ 0 , 1 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 379 > X:[ 1 , 2 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 380 > X:[ 1 , 2 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 381 > X:[ 1 , 2 ] Y:[ -7 , -6 ]

```



Found Entropy: 0  
<Window: 382 > X:[ 1 , 2 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 383 > X:[ 1 , 2 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 384 > X:[ 1 , 2 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 385 > X:[ 1 , 2 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 386 > X:[ 1 , 2 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 387 > X:[ 1 , 2 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 388 > X:[ 1 , 2 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 389 > X:[ 1 , 2 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 390 > X:[ 1 , 2 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 391 > X:[ 1 , 2 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 392 > X:[ 1 , 2 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 393 > X:[ 2 , 3 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 394 > X:[ 2 , 3 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 395 > X:[ 2 , 3 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 396 > X:[ 2 , 3 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 397 > X:[ 2 , 3 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 398 > X:[ 2 , 3 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 399 > X:[ 2 , 3 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 400 > X:[ 2 , 3 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 401 > X:[ 2 , 3 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 402 > X:[ 2 , 3 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 403 > X:[ 2 , 3 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 404 > X:[ 2 , 3 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 405 > X:[ 2 , 3 ] Y:[ 3 , 4 ]

Found Entropy: 0  
<Window: 406 > X:[ 2 , 3 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 407 > X:[ 3 , 4 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 408 > X:[ 3 , 4 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 409 > X:[ 3 , 4 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 410 > X:[ 3 , 4 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 411 > X:[ 3 , 4 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 412 > X:[ 3 , 4 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 413 > X:[ 3 , 4 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 414 > X:[ 3 , 4 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 415 > X:[ 3 , 4 ] Y:[ -1 , 0 ]  
Found Entropy: 0  
<Window: 416 > X:[ 3 , 4 ] Y:[ 0 , 1 ]  
Found Entropy: 0  
<Window: 417 > X:[ 3 , 4 ] Y:[ 1 , 2 ]  
Found Entropy: 0  
<Window: 418 > X:[ 3 , 4 ] Y:[ 2 , 3 ]  
Found Entropy: 0  
<Window: 419 > X:[ 3 , 4 ] Y:[ 3 , 4 ]  
Found Entropy: 0  
<Window: 420 > X:[ 3 , 4 ] Y:[ 4 , 5 ]  
Found Entropy: 0  
<Window: 421 > X:[ 4 , 5 ] Y:[ -9 , -8 ]  
Found Entropy: 0  
<Window: 422 > X:[ 4 , 5 ] Y:[ -8 , -7 ]  
Found Entropy: 0  
<Window: 423 > X:[ 4 , 5 ] Y:[ -7 , -6 ]  
Found Entropy: 0  
<Window: 424 > X:[ 4 , 5 ] Y:[ -6 , -5 ]  
Found Entropy: 0  
<Window: 425 > X:[ 4 , 5 ] Y:[ -5 , -4 ]  
Found Entropy: 0  
<Window: 426 > X:[ 4 , 5 ] Y:[ -4 , -3 ]  
Found Entropy: 0  
<Window: 427 > X:[ 4 , 5 ] Y:[ -3 , -2 ]  
Found Entropy: 0  
<Window: 428 > X:[ 4 , 5 ] Y:[ -2 , -1 ]  
Found Entropy: 0  
<Window: 429 > X:[ 4 , 5 ] Y:[ -1 , 0 ]

```

Found a sample of class: 1
Found Entropy: 0.0
<Window: 430 > X:[ 4 , 5 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 431 > X:[ 4 , 5 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 432 > X:[ 4 , 5 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 433 > X:[ 4 , 5 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 434 > X:[ 4 , 5 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 435 > X:[ 5 , 6 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 436 > X:[ 5 , 6 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 437 > X:[ 5 , 6 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 438 > X:[ 5 , 6 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 439 > X:[ 5 , 6 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 440 > X:[ 5 , 6 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 441 > X:[ 5 , 6 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 442 > X:[ 5 , 6 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 443 > X:[ 5 , 6 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 444 > X:[ 5 , 6 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 445 > X:[ 5 , 6 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 446 > X:[ 5 , 6 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 447 > X:[ 5 , 6 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 448 > X:[ 5 , 6 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 449 > X:[ 6 , 7 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 450 > X:[ 6 , 7 ] Y:[ -8 , -7 ]

```

```

Found Entropy: 0
<Window: 451 > X:[ 6 , 7 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 452 > X:[ 6 , 7 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 453 > X:[ 6 , 7 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 454 > X:[ 6 , 7 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 455 > X:[ 6 , 7 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 456 > X:[ 6 , 7 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 457 > X:[ 6 , 7 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 458 > X:[ 6 , 7 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 459 > X:[ 6 , 7 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 460 > X:[ 6 , 7 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 461 > X:[ 6 , 7 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 462 > X:[ 6 , 7 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 463 > X:[ 7 , 8 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 464 > X:[ 7 , 8 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 465 > X:[ 7 , 8 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 466 > X:[ 7 , 8 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 467 > X:[ 7 , 8 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 468 > X:[ 7 , 8 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 469 > X:[ 7 , 8 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 470 > X:[ 7 , 8 ] Y:[ -2 , -1 ]
Found a sample of class: 0

```

```

Found Entropy: 0.0
<Window: 471 > X:[ 7 , 8 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 472 > X:[ 7 , 8 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 1.0397207708399179
<Window: 473 > X:[ 7 , 8 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 474 > X:[ 7 , 8 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 475 > X:[ 7 , 8 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 476 > X:[ 7 , 8 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 477 > X:[ 8 , 9 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 478 > X:[ 8 , 9 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 479 > X:[ 8 , 9 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 480 > X:[ 8 , 9 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 481 > X:[ 8 , 9 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 482 > X:[ 8 , 9 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 483 > X:[ 8 , 9 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 484 > X:[ 8 , 9 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 485 > X:[ 8 , 9 ] Y:[ -1 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 486 > X:[ 8 , 9 ] Y:[ 0 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 487 > X:[ 8 , 9 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 488 > X:[ 8 , 9 ] Y:[ 2 , 3 ]

```

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Found Entropy: 0
<Window: 489 > X:[ 8 , 9 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 490 > X:[ 8 , 9 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 491 > X:[ 9 , 10 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 492 > X:[ 9 , 10 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 493 > X:[ 9 , 10 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 494 > X:[ 9 , 10 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 495 > X:[ 9 , 10 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 496 > X:[ 9 , 10 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 497 > X:[ 9 , 10 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 498 > X:[ 9 , 10 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 499 > X:[ 9 , 10 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 500 > X:[ 9 , 10 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 501 > X:[ 9 , 10 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 502 > X:[ 9 , 10 ] Y:[ 2 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 503 > X:[ 9 , 10 ] Y:[ 3 , 4 ]
Found Entropy: 0
<Window: 504 > X:[ 9 , 10 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 505 > X:[ 10 , 11 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 506 > X:[ 10 , 11 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 507 > X:[ 10 , 11 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 508 > X:[ 10 , 11 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 509 > X:[ 10 , 11 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 510 > X:[ 10 , 11 ] Y:[ -4 , -3 ]

```

Found Entropy: 0  
 <Window: 511 > X:[ 10 , 11 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 512 > X:[ 10 , 11 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 513 > X:[ 10 , 11 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 514 > X:[ 10 , 11 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.5623351446188083  
 <Window: 515 > X:[ 10 , 11 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 516 > X:[ 10 , 11 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 517 > X:[ 10 , 11 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 518 > X:[ 10 , 11 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 519 > X:[ 11 , 12 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 520 > X:[ 11 , 12 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 521 > X:[ 11 , 12 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 522 > X:[ 11 , 12 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 523 > X:[ 11 , 12 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 524 > X:[ 11 , 12 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 525 > X:[ 11 , 12 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 526 > X:[ 11 , 12 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 527 > X:[ 11 , 12 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 528 > X:[ 11 , 12 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 529 > X:[ 11 , 12 ] Y:[ 1 , 2 ]  
 Found a sample of class: 2  
 Found a sample of class: 0

```

Found Entropy: 0.6931471805599453
<Window: 530 > X:[ 11 , 12 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 531 > X:[ 11 , 12 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 532 > X:[ 11 , 12 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 533 > X:[ 12 , 13 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 534 > X:[ 12 , 13 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 535 > X:[ 12 , 13 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 536 > X:[ 12 , 13 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 537 > X:[ 12 , 13 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 538 > X:[ 12 , 13 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 539 > X:[ 12 , 13 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 540 > X:[ 12 , 13 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 541 > X:[ 12 , 13 ] Y:[ -1 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 542 > X:[ 12 , 13 ] Y:[ 0 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 543 > X:[ 12 , 13 ] Y:[ 1 , 2 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 544 > X:[ 12 , 13 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 545 > X:[ 12 , 13 ] Y:[ 3 , 4 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 546 > X:[ 12 , 13 ] Y:[ 4 , 5 ]

```



Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 547 > X:[ 13 , 14 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 548 > X:[ 13 , 14 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 549 > X:[ 13 , 14 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 550 > X:[ 13 , 14 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 551 > X:[ 13 , 14 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 552 > X:[ 13 , 14 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 553 > X:[ 13 , 14 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 554 > X:[ 13 , 14 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 555 > X:[ 13 , 14 ] Y:[ -1 , 0 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 556 > X:[ 13 , 14 ] Y:[ 0 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 557 > X:[ 13 , 14 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 558 > X:[ 13 , 14 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 1.0986122886681096  
 <Window: 559 > X:[ 13 , 14 ] Y:[ 3 , 4 ]  
 Found Entropy: 0  
 <Window: 560 > X:[ 13 , 14 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 561 > X:[ 14 , 15 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 562 > X:[ 14 , 15 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 563 > X:[ 14 , 15 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 564 > X:[ 14 , 15 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 565 > X:[ 14 , 15 ] Y:[ -5 , -4 ]  
 Found Entropy: 0

```

<Window: 566 > X:[ 14 , 15 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 567 > X:[ 14 , 15 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 568 > X:[ 14 , 15 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 569 > X:[ 14 , 15 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 570 > X:[ 14 , 15 ] Y:[ 0 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 571 > X:[ 14 , 15 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 572 > X:[ 14 , 15 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 573 > X:[ 14 , 15 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 574 > X:[ 14 , 15 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 575 > X:[ 15 , 16 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 576 > X:[ 15 , 16 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 577 > X:[ 15 , 16 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 578 > X:[ 15 , 16 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 579 > X:[ 15 , 16 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 580 > X:[ 15 , 16 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 581 > X:[ 15 , 16 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 582 > X:[ 15 , 16 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 583 > X:[ 15 , 16 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 584 > X:[ 15 , 16 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 585 > X:[ 15 , 16 ] Y:[ 1 , 2 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 586 > X:[ 15 , 16 ] Y:[ 2 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 587 > X:[ 15 , 16 ] Y:[ 3 , 4 ]

```

Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 588 > X:[ 15 , 16 ] Y:[ 4 , 5 ]  
 Found Entropy: 0  
 <Window: 589 > X:[ 16 , 17 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 590 > X:[ 16 , 17 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 591 > X:[ 16 , 17 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 592 > X:[ 16 , 17 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 593 > X:[ 16 , 17 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 594 > X:[ 16 , 17 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 595 > X:[ 16 , 17 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 596 > X:[ 16 , 17 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 597 > X:[ 16 , 17 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 598 > X:[ 16 , 17 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 599 > X:[ 16 , 17 ] Y:[ 1 , 2 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 600 > X:[ 16 , 17 ] Y:[ 2 , 3 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 601 > X:[ 16 , 17 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 602 > X:[ 16 , 17 ] Y:[ 4 , 5 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 603 > X:[ 17 , 18 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 604 > X:[ 17 , 18 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 605 > X:[ 17 , 18 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 606 > X:[ 17 , 18 ] Y:[ -6 , -5 ]  
 Found Entropy: 0

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<Window: 607 > X:[ 17 , 18 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 608 > X:[ 17 , 18 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 609 > X:[ 17 , 18 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 610 > X:[ 17 , 18 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 611 > X:[ 17 , 18 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 612 > X:[ 17 , 18 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 613 > X:[ 17 , 18 ] Y:[ 1 , 2 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 614 > X:[ 17 , 18 ] Y:[ 2 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 615 > X:[ 17 , 18 ] Y:[ 3 , 4 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 616 > X:[ 17 , 18 ] Y:[ 4 , 5 ]
Found Entropy: 0
<Window: 617 > X:[ 18 , 19 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 618 > X:[ 18 , 19 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 619 > X:[ 18 , 19 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 620 > X:[ 18 , 19 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 621 > X:[ 18 , 19 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 622 > X:[ 18 , 19 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 623 > X:[ 18 , 19 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 624 > X:[ 18 , 19 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 625 > X:[ 18 , 19 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 626 > X:[ 18 , 19 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 627 > X:[ 18 , 19 ] Y:[ 1 , 2 ]

```

Found Entropy: 0  
 <Window: 628 > X:[ 18 , 19 ] Y:[ 2 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.6931471805599453  
 <Window: 629 > X:[ 18 , 19 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 630 > X:[ 18 , 19 ] Y:[ 4 , 5 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 631 > X:[ 19 , 20 ] Y:[ -9 , -8 ]  
 Found Entropy: 0  
 <Window: 632 > X:[ 19 , 20 ] Y:[ -8 , -7 ]  
 Found Entropy: 0  
 <Window: 633 > X:[ 19 , 20 ] Y:[ -7 , -6 ]  
 Found Entropy: 0  
 <Window: 634 > X:[ 19 , 20 ] Y:[ -6 , -5 ]  
 Found Entropy: 0  
 <Window: 635 > X:[ 19 , 20 ] Y:[ -5 , -4 ]  
 Found Entropy: 0  
 <Window: 636 > X:[ 19 , 20 ] Y:[ -4 , -3 ]  
 Found Entropy: 0  
 <Window: 637 > X:[ 19 , 20 ] Y:[ -3 , -2 ]  
 Found Entropy: 0  
 <Window: 638 > X:[ 19 , 20 ] Y:[ -2 , -1 ]  
 Found Entropy: 0  
 <Window: 639 > X:[ 19 , 20 ] Y:[ -1 , 0 ]  
 Found Entropy: 0  
 <Window: 640 > X:[ 19 , 20 ] Y:[ 0 , 1 ]  
 Found Entropy: 0  
 <Window: 641 > X:[ 19 , 20 ] Y:[ 1 , 2 ]  
 Found Entropy: 0  
 <Window: 642 > X:[ 19 , 20 ] Y:[ 2 , 3 ]  
 Found Entropy: 0  
 <Window: 643 > X:[ 19 , 20 ] Y:[ 3 , 4 ]  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 644 > X:[ 19 , 20 ] Y:[ 4 , 5 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6730116670092565

```

<Window: 645 > X:[ 20 , 21 ] Y:[ -9 , -8 ]
Found Entropy: 0
<Window: 646 > X:[ 20 , 21 ] Y:[ -8 , -7 ]
Found Entropy: 0
<Window: 647 > X:[ 20 , 21 ] Y:[ -7 , -6 ]
Found Entropy: 0
<Window: 648 > X:[ 20 , 21 ] Y:[ -6 , -5 ]
Found Entropy: 0
<Window: 649 > X:[ 20 , 21 ] Y:[ -5 , -4 ]
Found Entropy: 0
<Window: 650 > X:[ 20 , 21 ] Y:[ -4 , -3 ]
Found Entropy: 0
<Window: 651 > X:[ 20 , 21 ] Y:[ -3 , -2 ]
Found Entropy: 0
<Window: 652 > X:[ 20 , 21 ] Y:[ -2 , -1 ]
Found Entropy: 0
<Window: 653 > X:[ 20 , 21 ] Y:[ -1 , 0 ]
Found Entropy: 0
<Window: 654 > X:[ 20 , 21 ] Y:[ 0 , 1 ]
Found Entropy: 0
<Window: 655 > X:[ 20 , 21 ] Y:[ 1 , 2 ]
Found Entropy: 0
<Window: 656 > X:[ 20 , 21 ] Y:[ 2 , 3 ]
Found Entropy: 0
<Window: 657 > X:[ 20 , 21 ] Y:[ 3 , 4 ]
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 658 > X:[ 20 , 21 ] Y:[ 4 , 5 ]
Found a sample of class: 1
Found Entropy: 0.0
Total Count: 658
Expected Count: 658
OKAY: True
-----Done----- 22.716655925390782
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]

```



Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]

```

Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.48257756517701206
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.37677016125643675
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0

```

```

<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 1.9059782130166705
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found Entropy: 0.2145591551764051
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.40945861869508926
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.45056120886630463  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]

```

Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.410116318288409

```



```

<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2

```

```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.7774621319109287
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5297061990576545
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2

```

```

Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.30463609734923813
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.639031859650177
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 5.906832364815045
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.42584844923858145
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5763341277567499
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]

```

Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]

```

Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9556998911125343
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0

```

```

<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.7963116401738131
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2

```



```

Found a sample of class: 2
Found Entropy: 0.8647400965276372
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5623351446188083
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.5297061990576545
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.30463609734923813
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8018185525433373
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8486855577264172
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 8.501479237313205
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6

```

```

And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5297061990576545
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9097077103274986
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073516
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]

```

Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]

```

Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0789922078775833
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8675632284814612
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.410116318288409
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.3250829733914482
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9743147528693494
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0

```

```

<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6869615765973234
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6001660731596457
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```



```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6108643020548935
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 10.879963858860972
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073516
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.8785250991271565
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0

```

```

<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]

```

```

Found Entropy: 0
<Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 2

```

Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 1.0789922078775833  
 <Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 1.0114042647073518  
 <Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.7963116401738131  
 <Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.8018185525433372  
 <Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]

```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8815322611881636
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found Entropy: 1.0608569471580214
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.7595473914748635
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8979457248567797
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 1

```

```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 14.168158576926993
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0893096789558299
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]

```



```

Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0171643509248343
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]

```

Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]

```

Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0042424730540764
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6931471805599453

```

```

<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.5982695885852573
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9502705392332347
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0239287996389363
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9649629230074277
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8599672810355049
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0296530140645737
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0986122886681096
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 14.028571586277163
Done!

```

```

-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0893096789558299
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0795295733255186
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073518
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]

```



Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]

```

Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0042424730540764
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0

```

```

Found Entropy: 0.6829081047004717
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9502705392332347
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.094780226007948
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9002560512685369
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9950269901795212
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9075352941050093
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9502705392332347
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 14.32908036737314
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0263306332944864
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0795295733255186
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 1
Found Entropy: 0.5623351446188083
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0114042647073516
<Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]

```

Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]



```

Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0042424730540764
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.45056120886630463
<Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9556998911125343
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0296530140645737
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]

```

```

Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 1.0821955300387673
<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0821955300387671
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9950269901795212
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8599672810355049
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.8018185525433372
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0

```

```

<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.8486855577264172
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 13.426159812900783
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9580002800887726
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]

```

```

Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0132690262497301
<Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0

```

Found a sample of class: 0  
 Found Entropy: 1.0114042647073516  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 0  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]

```

Found Entropy: 0
<Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0789922078775833
<Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]
Found a sample of class: 0

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found Entropy: 0.6365141682948128  
 <Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6829081047004717  
 <Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6730116670092565  
 <Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2



Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found Entropy: 0.9840865030829147  
 <Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 0.9743147528693494  
 <Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found Entropy: 1.0986122886681096  
 <Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.6365141682948128  
 <Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]

```

Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0361987848192837
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 0.8979457248567797
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1

```

```

Found Entropy: 0.5297061990576545
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 12.847992308871694
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 22
Y_min= -9
Y_max= 6
And the Matrix Shape: 48 * 15
<Window: 1 > X:[ -26 , -23 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.900908873225472
<Window: 2 > X:[ -26 , -23 ] Y:[ -6 , -3 ]
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.6931471805599453
<Window: 3 > X:[ -26 , -23 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 4 > X:[ -26 , -23 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 5 > X:[ -26 , -23 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 6 > X:[ -23 , -20 ] Y:[ -9 , -6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.9551311954514641  
 <Window: 7 > X:[ -23 , -20 ] Y:[ -6 , -3 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found Entropy: 0.5623351446188083  
 <Window: 8 > X:[ -23 , -20 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -23 , -20 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -23 , -20 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -20 , -17 ] Y:[ -9 , -6 ]  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found Entropy: 1.0114042647073518  
 <Window: 12 > X:[ -20 , -17 ] Y:[ -6 , -3 ]  
 Found a sample of class: 2  
 Found Entropy: 0.0  
 <Window: 13 > X:[ -20 , -17 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -20 , -17 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -20 , -17 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -17 , -14 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -17 , -14 ] Y:[ -6 , -3 ]

Found Entropy: 0  
 <Window: 18 > X:[ -17 , -14 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ -17 , -14 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ -17 , -14 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 21 > X:[ -14 , -11 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 22 > X:[ -14 , -11 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ -14 , -11 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 24 > X:[ -14 , -11 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 25 > X:[ -14 , -11 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 26 > X:[ -11 , -8 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 27 > X:[ -11 , -8 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 28 > X:[ -11 , -8 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 29 > X:[ -11 , -8 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 30 > X:[ -11 , -8 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 31 > X:[ -8 , -5 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 32 > X:[ -8 , -5 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 33 > X:[ -8 , -5 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 34 > X:[ -8 , -5 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 35 > X:[ -8 , -5 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 36 > X:[ -5 , -2 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 37 > X:[ -5 , -2 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 38 > X:[ -5 , -2 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 39 > X:[ -5 , -2 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 40 > X:[ -5 , -2 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 41 > X:[ -2 , 1 ] Y:[ -9 , -6 ]

Found Entropy: 0  
 <Window: 42 > X:[ -2 , 1 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 43 > X:[ -2 , 1 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 44 > X:[ -2 , 1 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 45 > X:[ -2 , 1 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 46 > X:[ 1 , 4 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 47 > X:[ 1 , 4 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 48 > X:[ 1 , 4 ] Y:[ -3 , 0 ]  
 Found Entropy: 0  
 <Window: 49 > X:[ 1 , 4 ] Y:[ 0 , 3 ]  
 Found Entropy: 0  
 <Window: 50 > X:[ 1 , 4 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 51 > X:[ 4 , 7 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 52 > X:[ 4 , 7 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 53 > X:[ 4 , 7 ] Y:[ -3 , 0 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 1.0042424730540764  
 <Window: 54 > X:[ 4 , 7 ] Y:[ 0 , 3 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6365141682948128  
 <Window: 55 > X:[ 4 , 7 ] Y:[ 3 , 6 ]  
 Found Entropy: 0  
 <Window: 56 > X:[ 7 , 10 ] Y:[ -9 , -6 ]  
 Found Entropy: 0  
 <Window: 57 > X:[ 7 , 10 ] Y:[ -6 , -3 ]  
 Found Entropy: 0  
 <Window: 58 > X:[ 7 , 10 ] Y:[ -3 , 0 ]  
 Found a sample of class: 0

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.7963116401738131
<Window: 59 > X:[ 7 , 10 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0296530140645737
<Window: 60 > X:[ 7 , 10 ] Y:[ 3 , 6 ]
Found Entropy: 0
<Window: 61 > X:[ 10 , 13 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 62 > X:[ 10 , 13 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 63 > X:[ 10 , 13 ] Y:[ -3 , 0 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 64 > X:[ 10 , 13 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.9743147528693494

```

```

<Window: 65 > X:[ 10 , 13 ] Y:[ 3 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found Entropy: 1.0397207708399179
<Window: 66 > X:[ 13 , 16 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 67 > X:[ 13 , 16 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 68 > X:[ 13 , 16 ] Y:[ -3 , 0 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 69 > X:[ 13 , 16 ] Y:[ 0 , 3 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
<Window: 70 > X:[ 13 , 16 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.6365141682948128
<Window: 71 > X:[ 16 , 19 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 72 > X:[ 16 , 19 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 73 > X:[ 16 , 19 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 74 > X:[ 16 , 19 ] Y:[ 0 , 3 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0

```



```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0361987848192837
<Window: 75 > X:[ 16 , 19 ] Y:[ 3 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6730116670092565
<Window: 76 > X:[ 19 , 22 ] Y:[ -9 , -6 ]
Found Entropy: 0
<Window: 77 > X:[ 19 , 22 ] Y:[ -6 , -3 ]
Found Entropy: 0
<Window: 78 > X:[ 19 , 22 ] Y:[ -3 , 0 ]
Found Entropy: 0
<Window: 79 > X:[ 19 , 22 ] Y:[ 0 , 3 ]
Found Entropy: 0
<Window: 80 > X:[ 19 , 22 ] Y:[ 3 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6365141682948128
Total Count: 80
Expected Count: 80
OKAY: True
-----Done----- 13.64677921343577
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]

```

[illegible]

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy:

```

```

C:\Users\Admin\Anaconda3\lib\site-packages\matplotlib\pyplot.py:528: RuntimeWarning: More than
  max_open_warning, RuntimeWarning)

```

```

0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 1
Found a sample of class: 1

```

```
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.1732052067491771
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
```

[illegible]

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 0.8377336454040922
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.28393626675586414  
 <Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 0.5366645624845252  
 <Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]

[illegible]



Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found Entropy: 0.3445982481028228  
 <Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.0  
 <Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 0.7356219397587946  
 <Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 2

```
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found Entropy: 0.6829081047004717  
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]  
Found Entropy: 0  
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]  
Found a sample of class: 1  
Found Entropy: 0.0  
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]  
Found a sample of class: 0  
Found a sample of class: 1  
Found a sample of class: 1  
Found a sample of class: 0  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found Entropy: 0.5221718405002467  
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]  
Found Entropy: 0  
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]  
Found Entropy: 0  
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2  
Found a sample of class: 2
```



```

Found a sample of class: 0
Found Entropy: 0.45710229325542967
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.7659373365785205
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]

```

```

Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.5117400734174093
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.0
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.6210863745552451
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.6645284386549151
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.4791656239282754
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8486855577264172
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 4.348245698116212
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]

```

```
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.6883644225872564
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
```



```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9174021803627407
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.8028187820379638
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9214934308679616
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1

```

[illegible]

```

Found a sample of class: 2
Found Entropy: 0.8130703662590886
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.8486855577264172
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 6.66788264811653
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9357467452948549
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9724809323379562
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]

```

```

Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8675632284814612
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]

```

```

Found a sample of class: 2
Found a sample of class: 1
Found Entropy: 0.6931471805599453
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0239287996389363
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9829007277151565
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0

```

```

<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9158736818081559
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
Total Count: 30

```



```

Expected Count: 30
OKAY: True
-----Done----- 7.452498242994488
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9828642929216391
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0

```

```

<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0171643509248343
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]

```

```

Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.8239592165010823
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found Entropy: 0.6931471805599453
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0433534269422904
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0353605606849843
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 1
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9950269901795212
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0986122886681096
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 7.6894883073824065
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2

```

Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0707894419593655  
 <Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0

Found a sample of class: 0  
 Found a sample of class: 0  
 Found Entropy: 1.0601189359398382  
 <Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]  
 Found Entropy: 0  
 <Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]  
 Found Entropy: 0  
 <Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1

```

Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 0.9337200585143981
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0433534269422906
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1

```



```

Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.091786238095127
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0

```

```

<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0608569471580214
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 7.321481995767062
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0914145617941
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0958871542125534
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]

```

```

Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found Entropy: 1.077556327066801
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.0
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]

```

```

Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.0239287996389363
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0986122886681096
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.085723054772177
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found Entropy: 0.9649629230074277
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 7.438085109160104
Done!
-26 21 -9 5
You Can use this matrix now.

```

```

X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0496717767488781
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2

```

```

Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 1.0601189359398382
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 0

```



```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 1.024010220294295
<Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.0
<Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found Entropy: 0.9470571522825082
<Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]

```

```

Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.052922565938695
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0

```

```

Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0708078595494446
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found Entropy: 0.6869615765973234
Total Count: 30
Expected Count: 30
OKAY: True
-----Done----- 6.891550087350982
Done!
-26 21 -9 5
You Can use this matrix now.
X_min= -26
X_max= 24
Y_min= -9
Y_max= 6
And the Matrix Shape: 50 * 15
<Window: 1 > X:[ -26 , -21 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1

```

```

Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9347570038626677
<Window: 2 > X:[ -26 , -21 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 3 > X:[ -26 , -21 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 4 > X:[ -21 , -16 ] Y:[ -9 , -4 ]
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found Entropy: 0.9551311954514641
<Window: 5 > X:[ -21 , -16 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 6 > X:[ -21 , -16 ] Y:[ 1 , 6 ]

```

```

Found Entropy: 0
<Window: 7 > X:[ -16 , -11 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 8 > X:[ -16 , -11 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 9 > X:[ -16 , -11 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 10 > X:[ -11 , -6 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 11 > X:[ -11 , -6 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 12 > X:[ -11 , -6 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 13 > X:[ -6 , -1 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 14 > X:[ -6 , -1 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 15 > X:[ -6 , -1 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 16 > X:[ -1 , 4 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 17 > X:[ -1 , 4 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 18 > X:[ -1 , 4 ] Y:[ 1 , 6 ]
Found Entropy: 0
<Window: 19 > X:[ 4 , 9 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 20 > X:[ 4 , 9 ] Y:[ -4 , 1 ]
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1

```

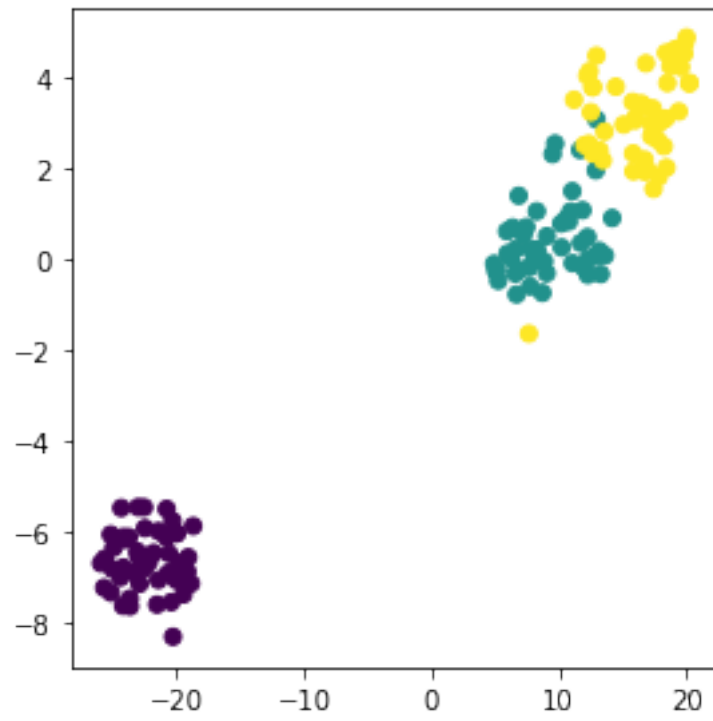
Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found Entropy: 1.0327438135557083  
 <Window: 21 > X:[ 4 , 9 ] Y:[ 1 , 6 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found Entropy: 0.6931471805599453  
 <Window: 22 > X:[ 9 , 14 ] Y:[ -9 , -4 ]  
 Found Entropy: 0  
 <Window: 23 > X:[ 9 , 14 ] Y:[ -4 , 1 ]  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found Entropy: 0.8815322611881636  
 <Window: 24 > X:[ 9 , 14 ] Y:[ 1 , 6 ]  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 0  
 Found a sample of class: 2  
 Found a sample of class: 2  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 1  
 Found a sample of class: 0  
 Found a sample of class: 0

```

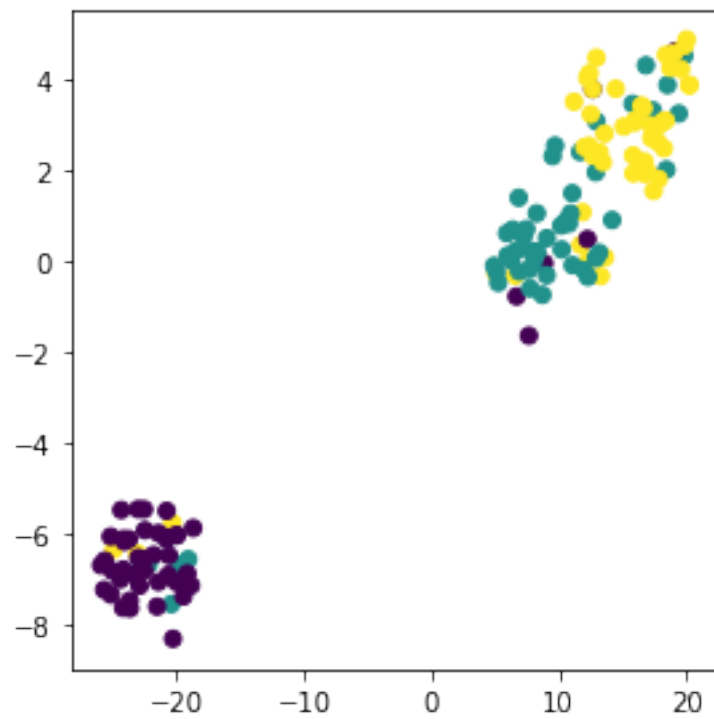
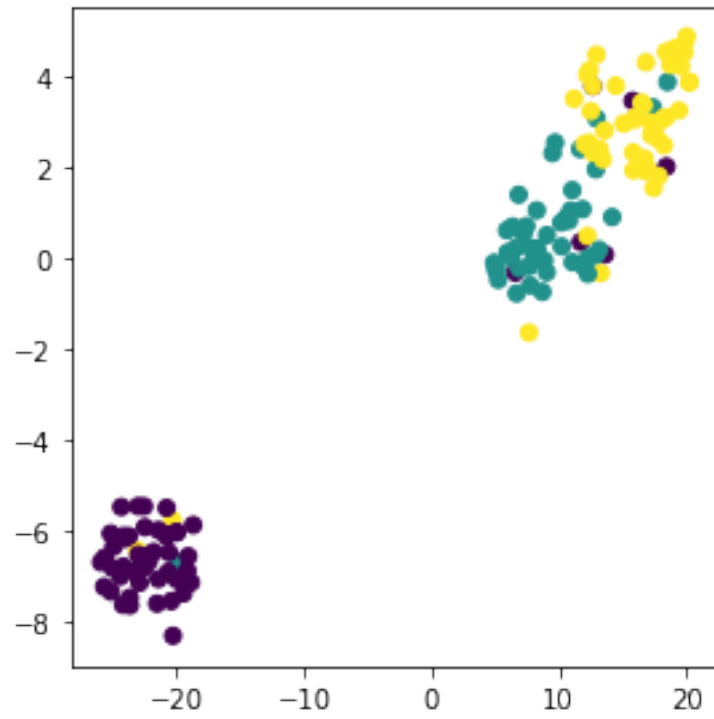
Found a sample of class: 0
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 1.0789922078775833
<Window: 25 > X:[ 14 , 19 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 26 > X:[ 14 , 19 ] Y:[ -4 , 1 ]
Found a sample of class: 0
Found Entropy: 0.0
<Window: 27 > X:[ 14 , 19 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 2
Found a sample of class: 2
Found a sample of class: 2
Found Entropy: 0.9649629230074277
<Window: 28 > X:[ 19 , 24 ] Y:[ -9 , -4 ]
Found Entropy: 0
<Window: 29 > X:[ 19 , 24 ] Y:[ -4 , 1 ]
Found Entropy: 0
<Window: 30 > X:[ 19 , 24 ] Y:[ 1 , 6 ]
Found a sample of class: 0
Found a sample of class: 1
Found a sample of class: 0
Found a sample of class: 0
Found a sample of class: 1

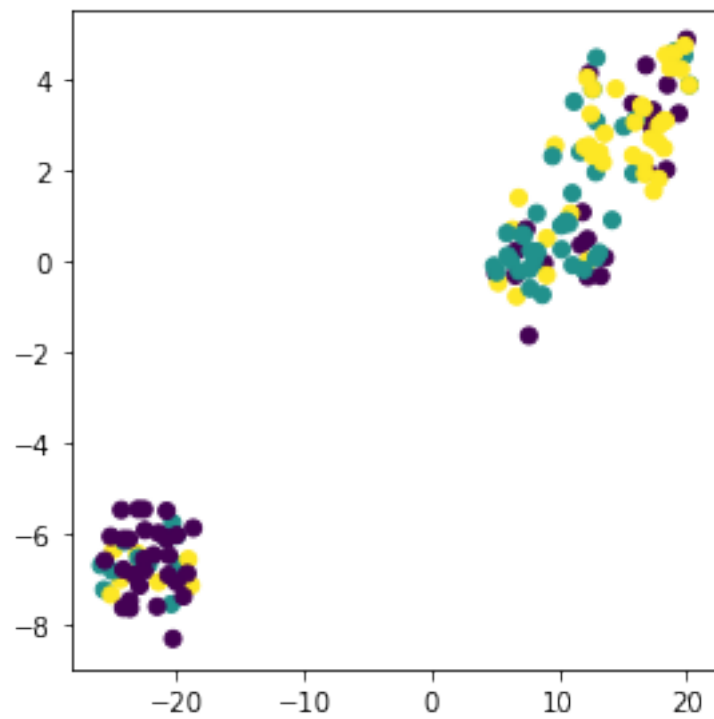
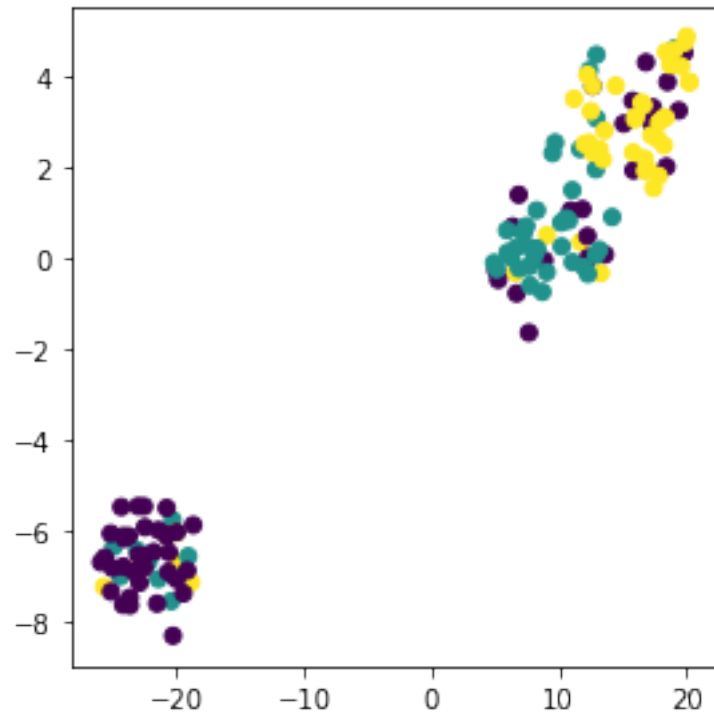
```

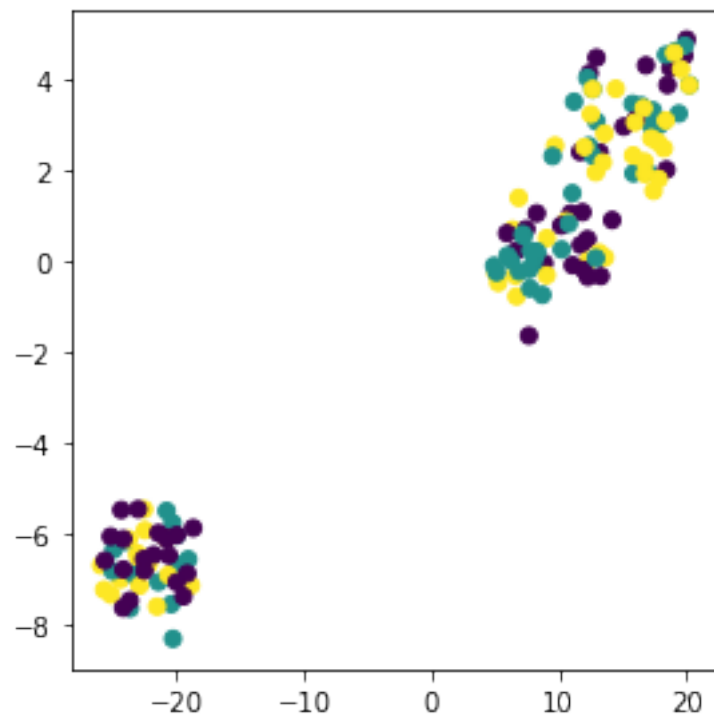
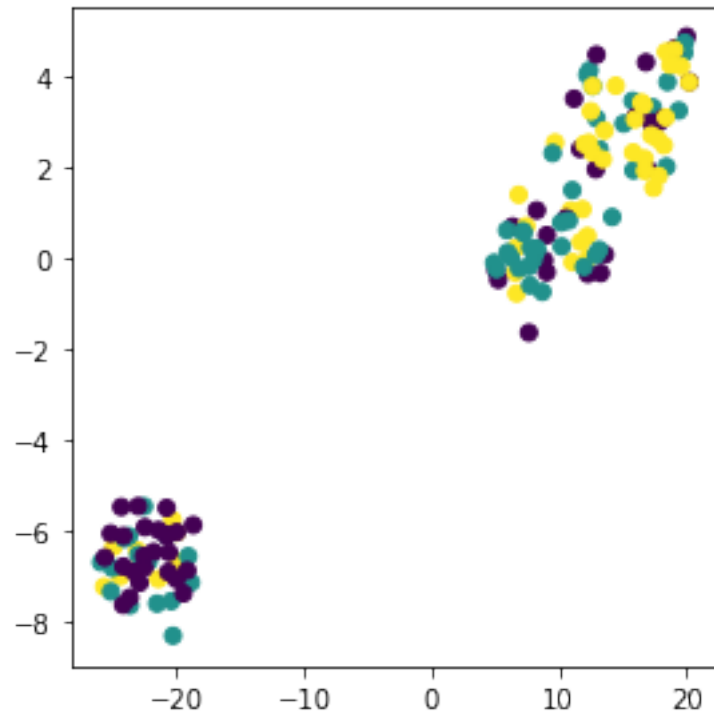
Found a sample of class: 0  
Found a sample of class: 0  
Found a sample of class: 1  
Found a sample of class: 0  
Found Entropy: 0.6365141682948128  
Total Count: 30  
Expected Count: 30  
OKAY: True  
-----Done----- 7.177780753797773

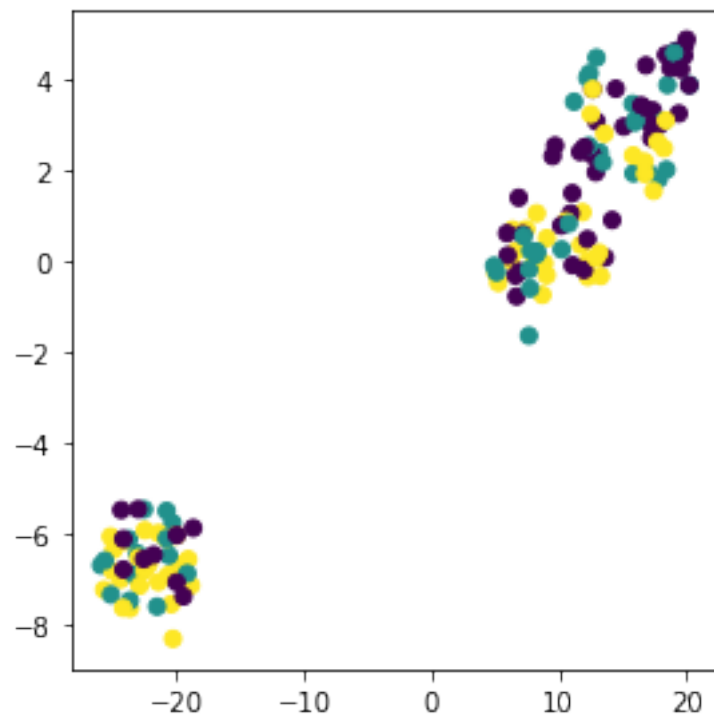
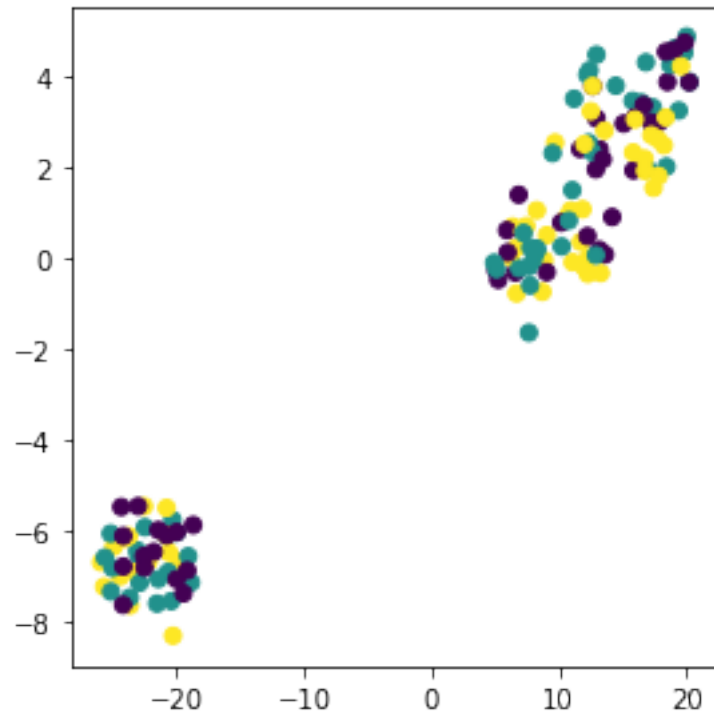


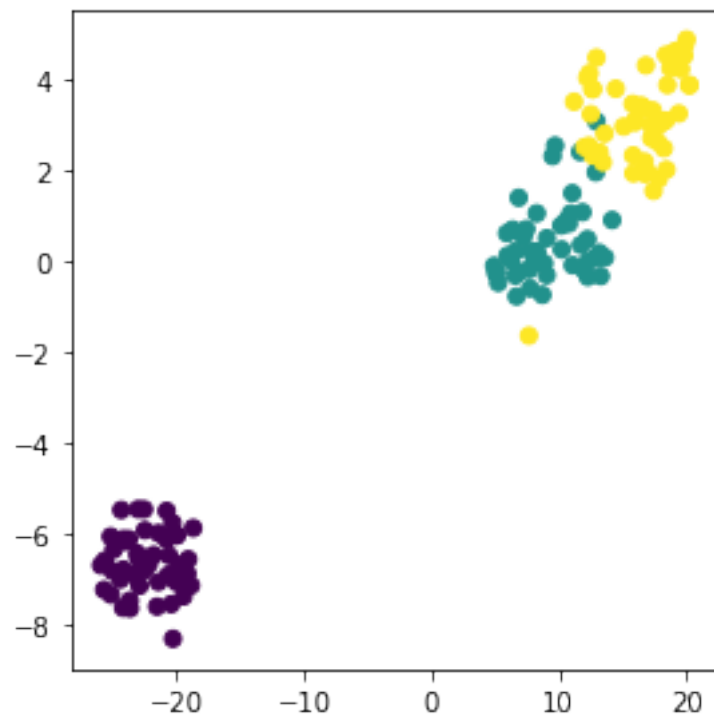
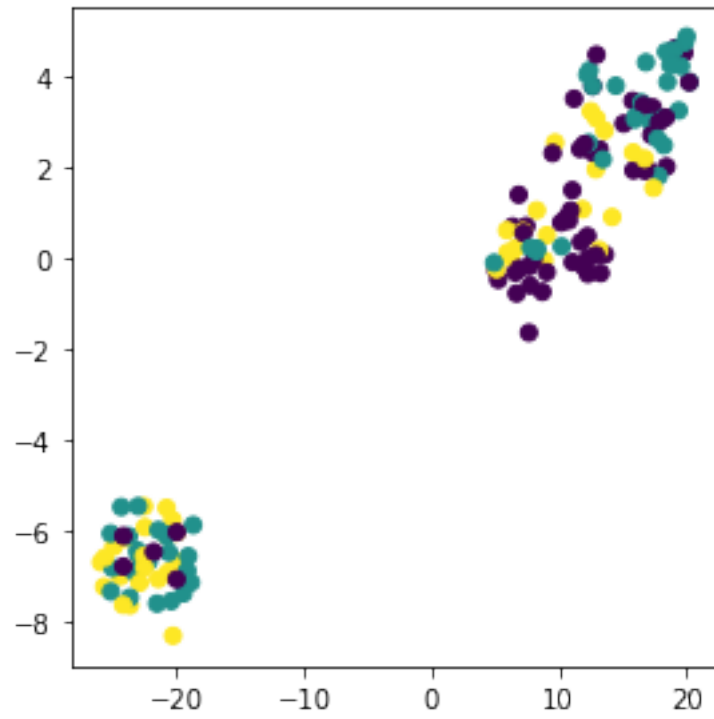


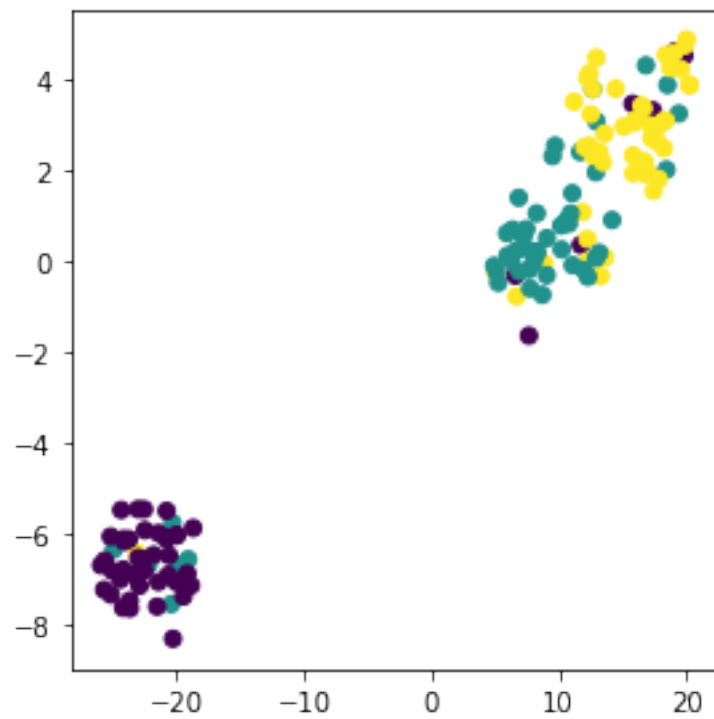
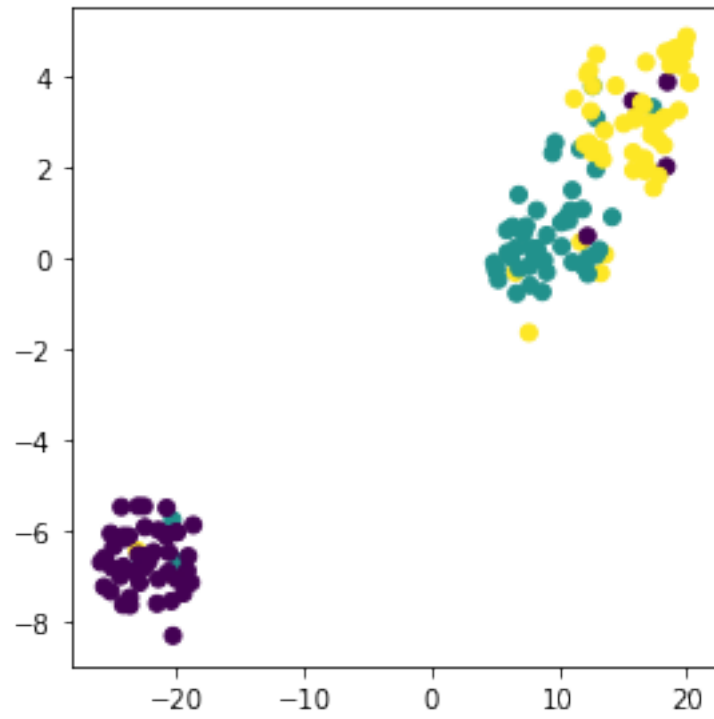


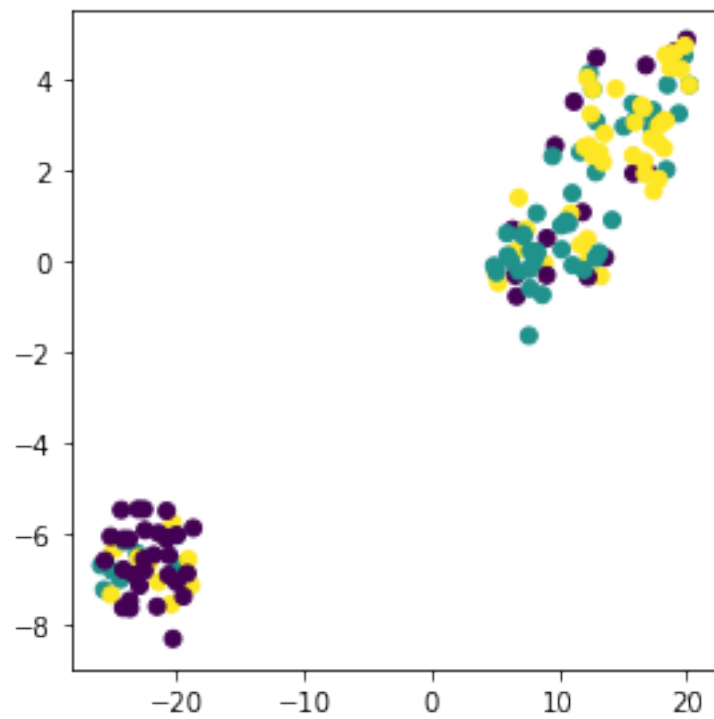
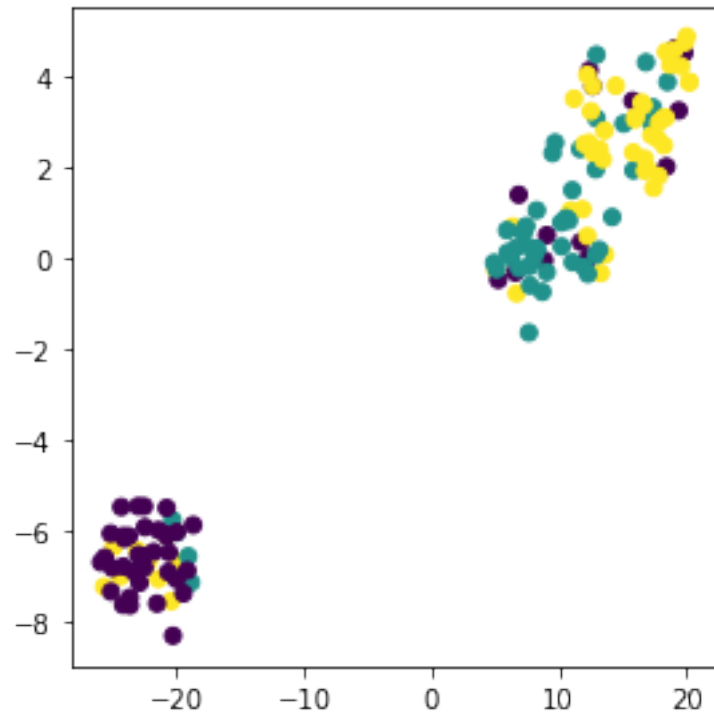


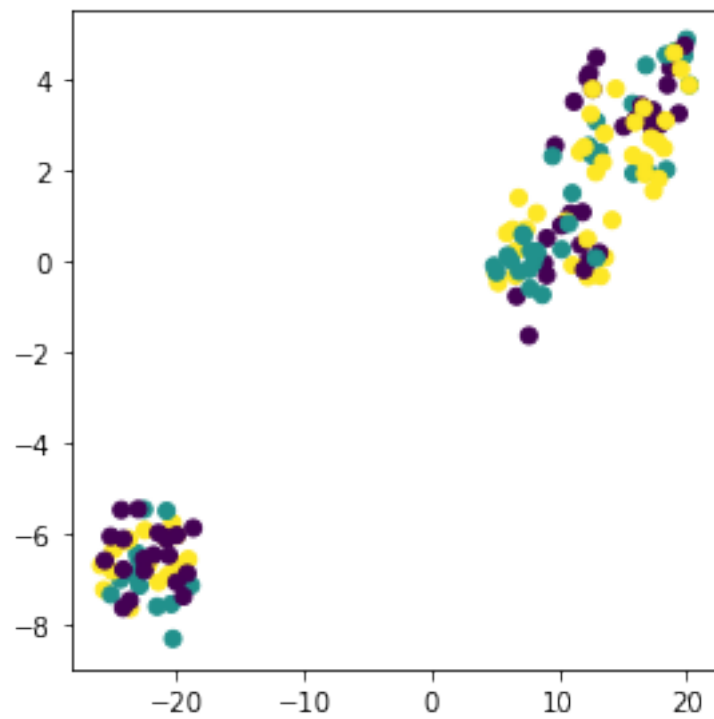
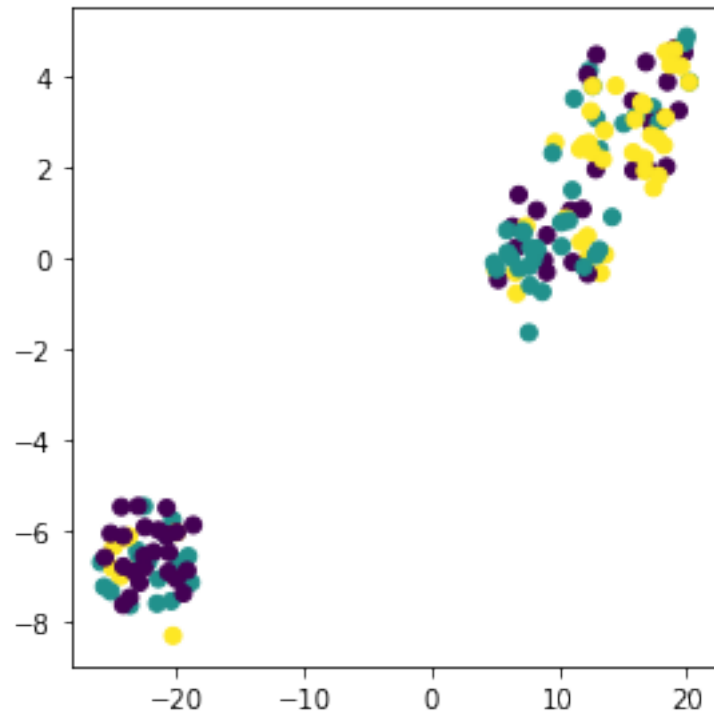




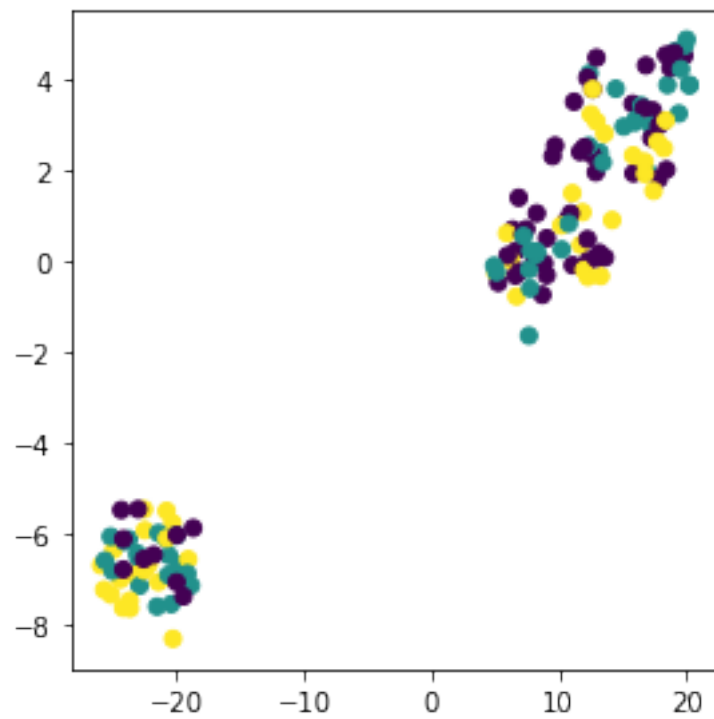
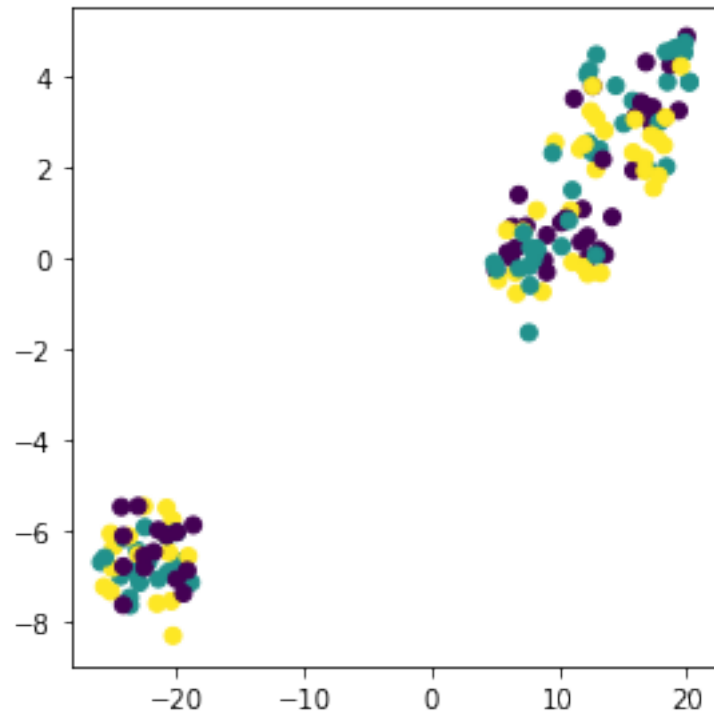


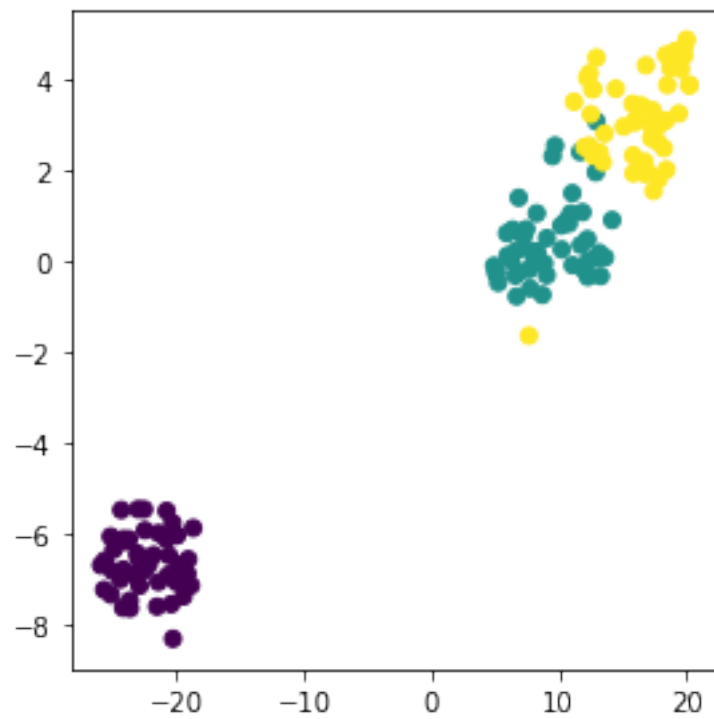
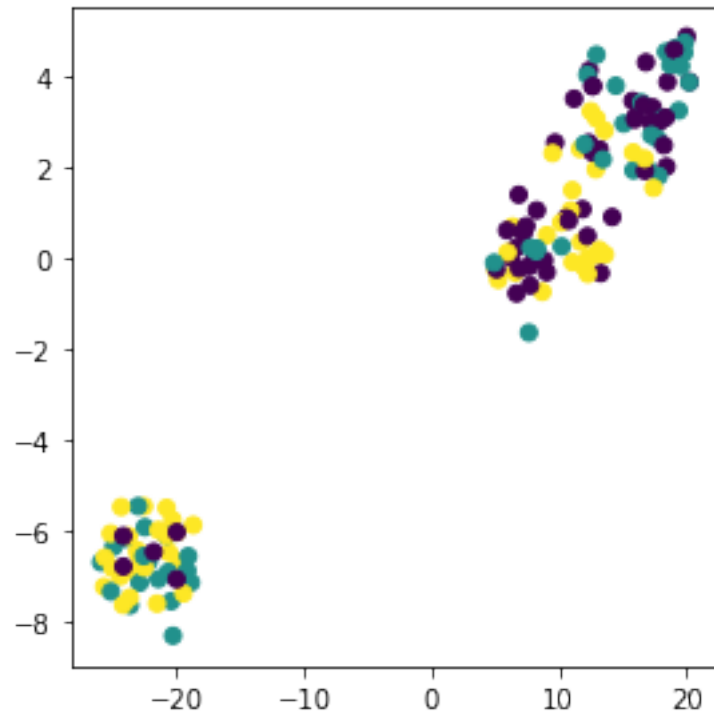


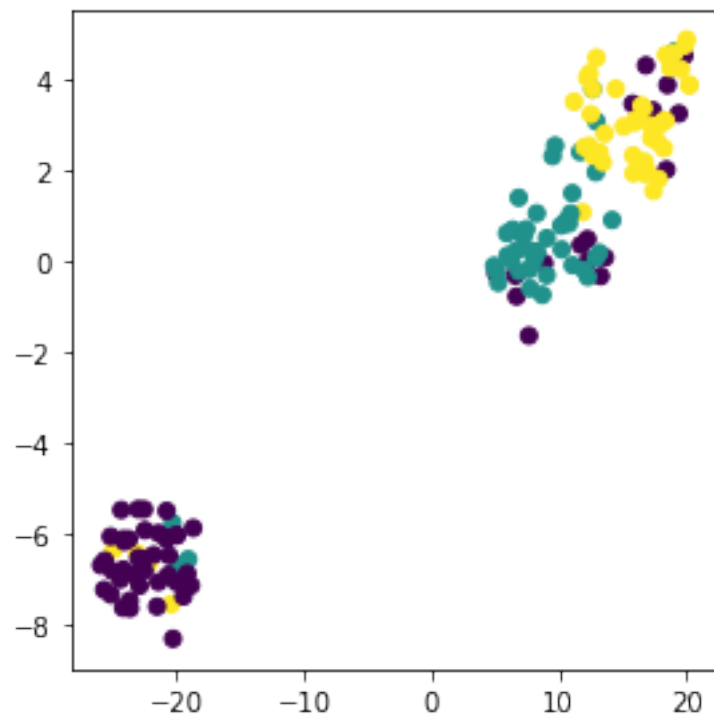
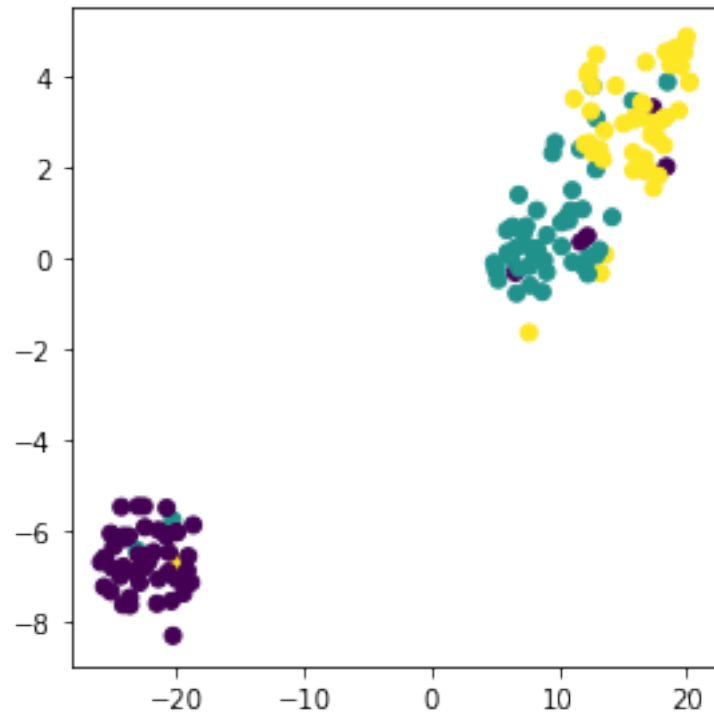


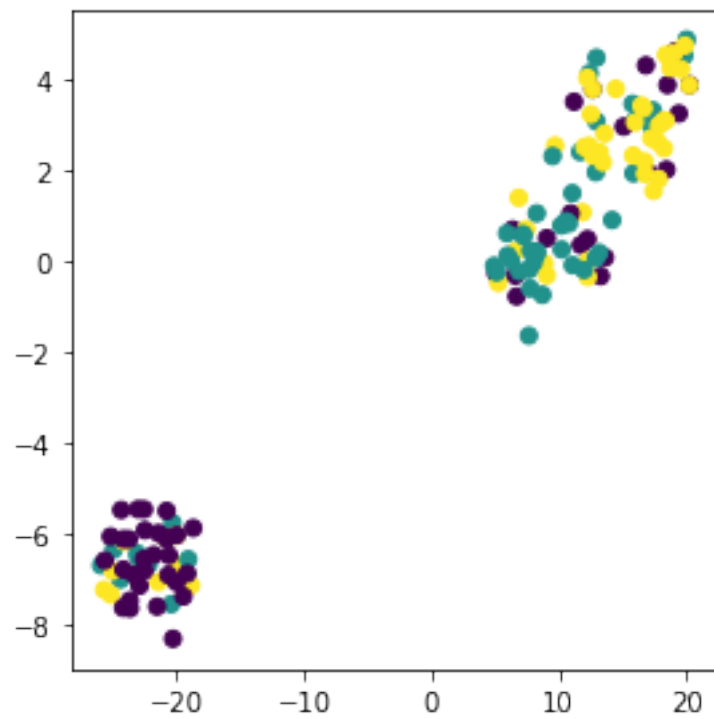
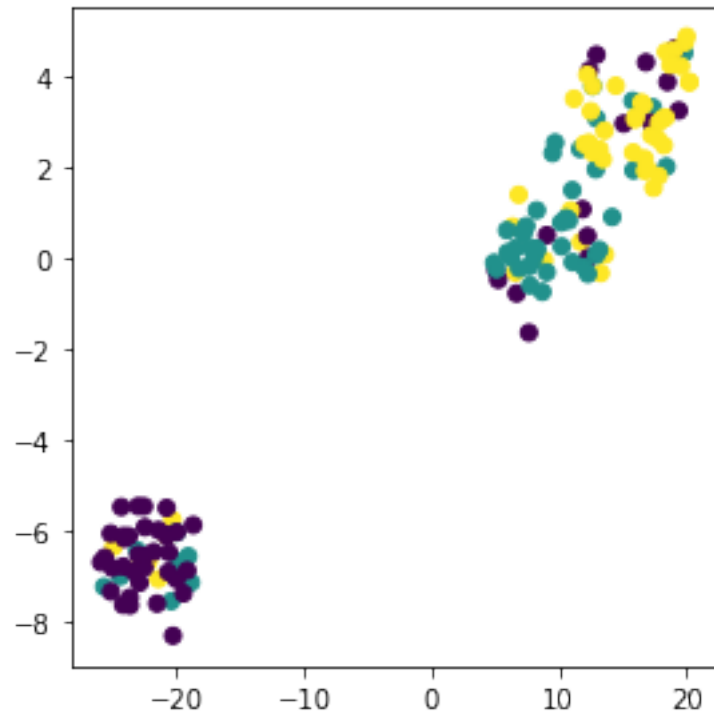


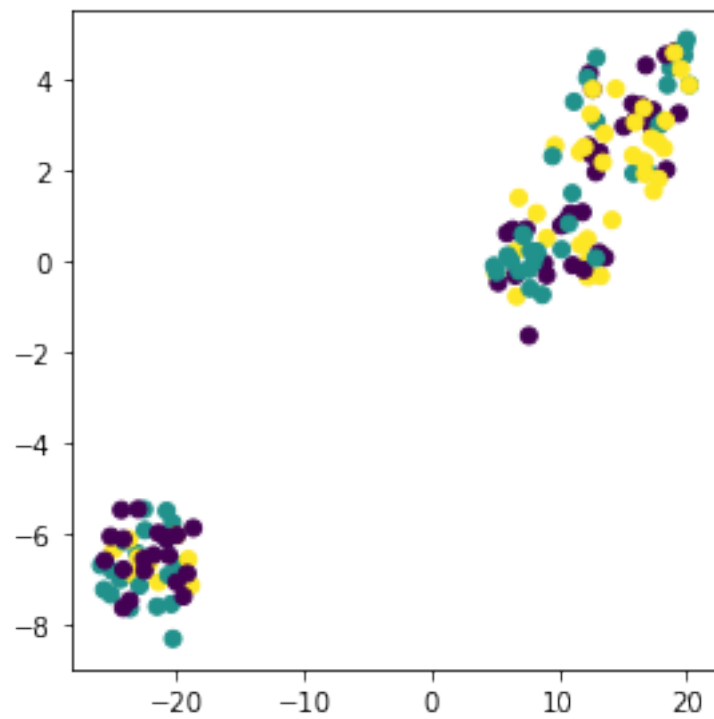
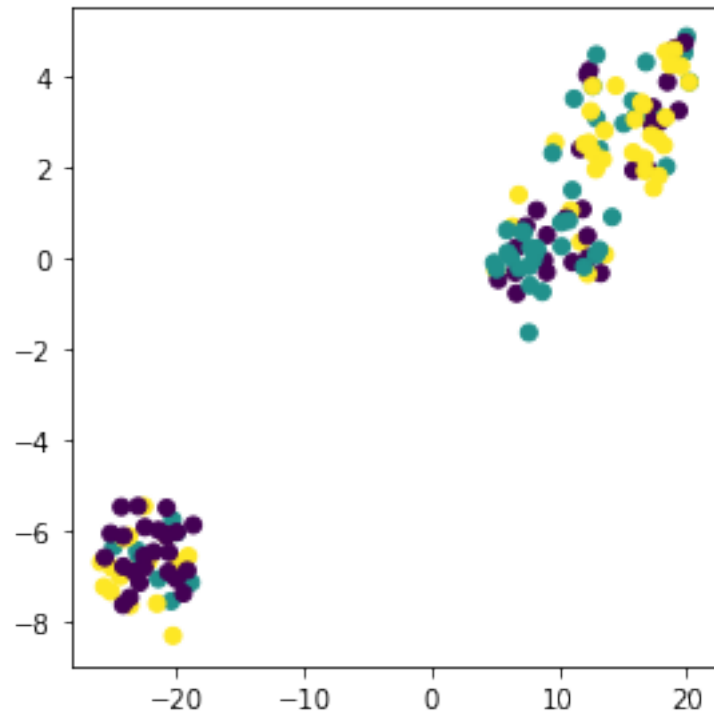


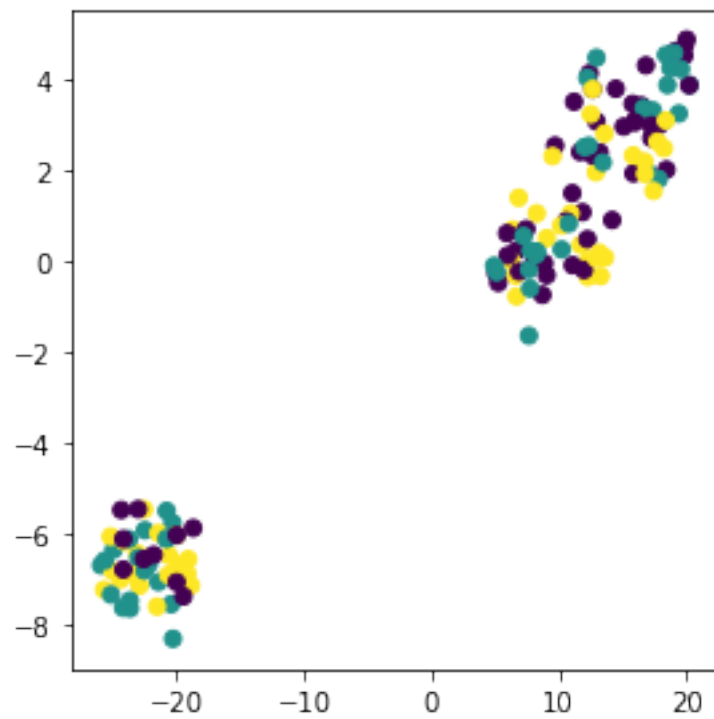
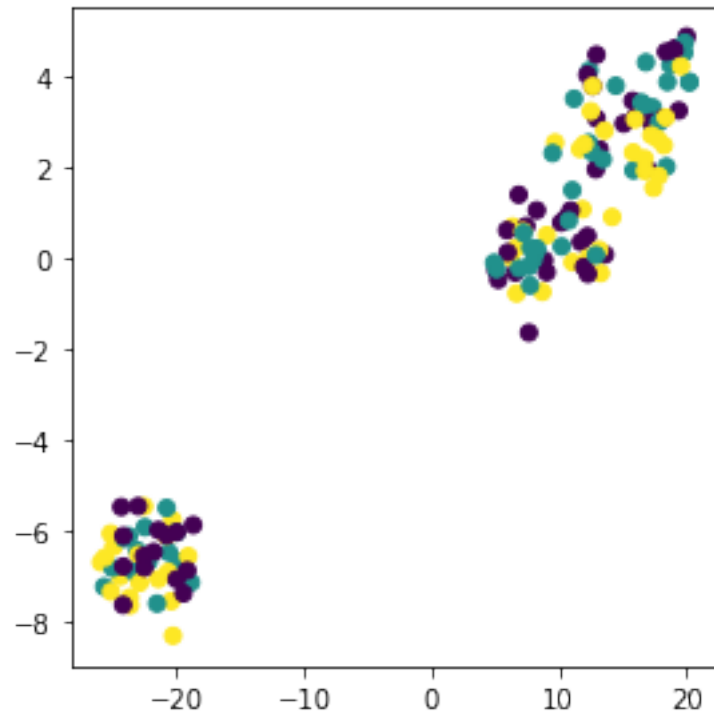


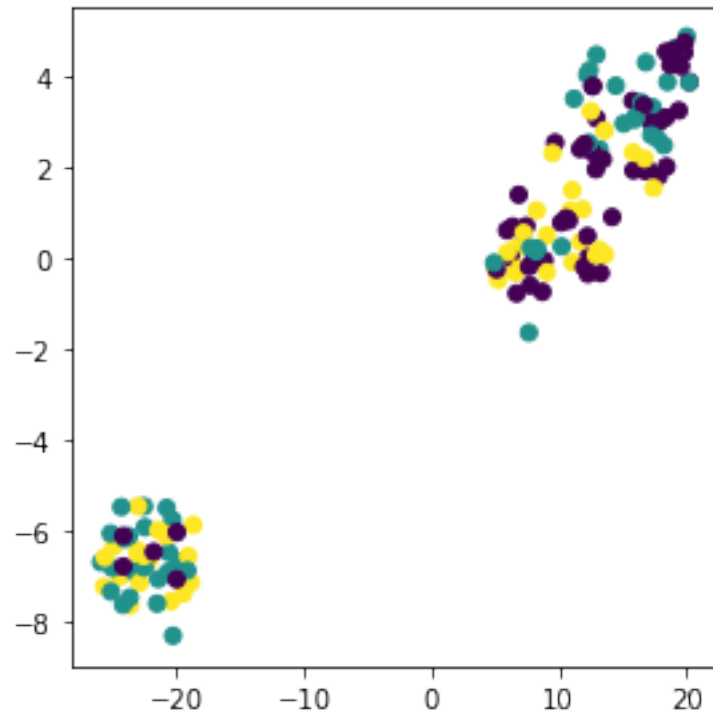












In [126]: dataSet

```
Out[126]: [[[], []],
            [[0, 10, 20, 30, 40, 50, 60, 70, 80, 90],
             [1.2554823251787535,
              8.73851878067532,
              13.853681503172105,
              18.878635726235473,
              25.02940503282032,
              28.127269243771856,
              26.30719326841124,
              25.858124148322695,
              21.792007983531576,
              22.716655925390782]],
            [[[], []],
             [[0, 10, 20, 30, 40, 50, 60, 70, 80, 90],
              [1.9059782130166705,
               5.906832364815045,
               8.501479237313205,
               10.879963858860972,
               14.168158576926993,
               14.028571586277163,
               14.32908036737314,
               13.426159812900783,
```

```

12.847992308871694,
13.64677921343577]],
[[], []],
[[0, 10, 20, 30, 40, 50, 60, 70, 80, 90],
[0.8377336454040922,
3.1059009623027247,
4.348245698116212,
6.66788264811653,
7.452498242994488,
7.6894883073824065,
7.321481995767062,
7.438085109160104,
6.891550087350982,
7.177780753797773]]]

```

```

In [131]: print("The final plots are")
def plotter(i):
    plt.plot(dataSet[i][0],dataSet[i][1])
    plt.title('Window Size = ' + str(i))
    plt.xlabel('Noise')
    plt.ylabel('Entropy')

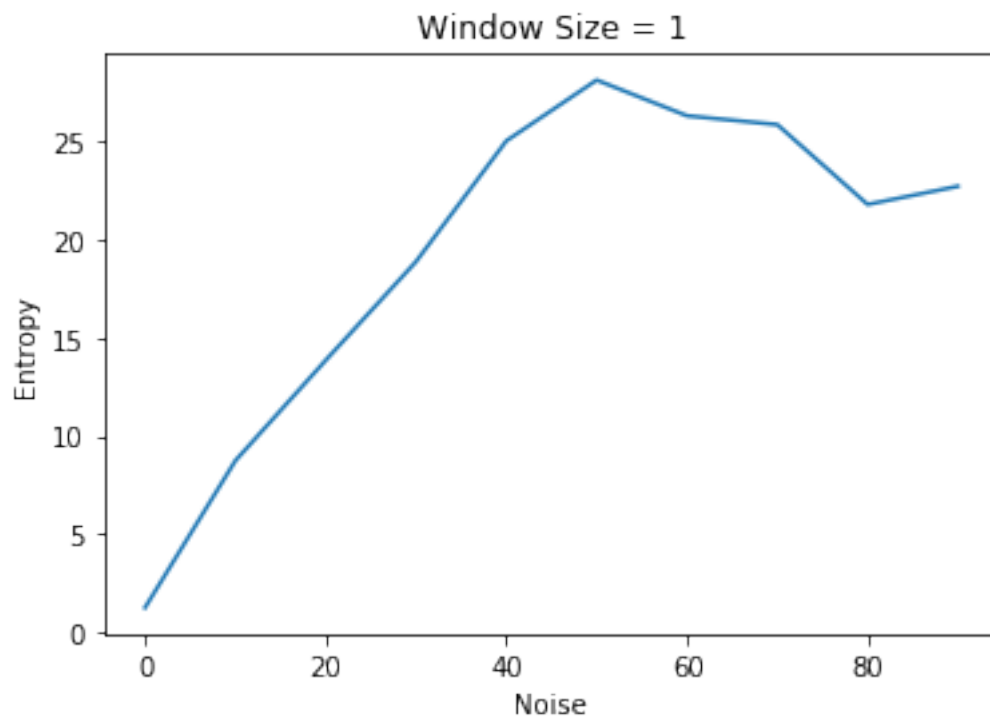
```

The final plots are

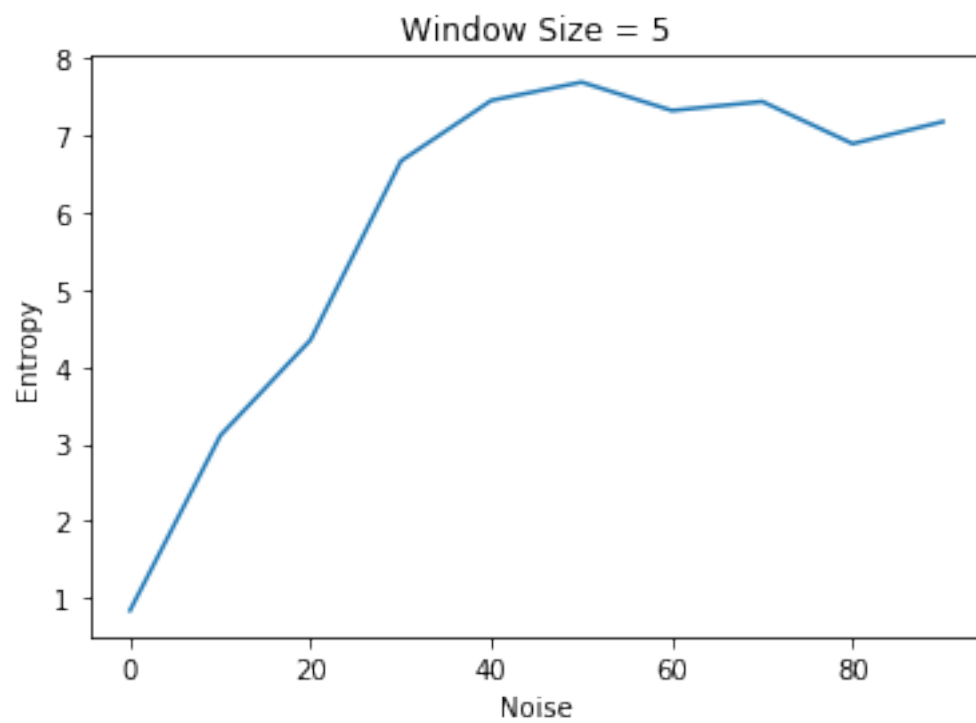
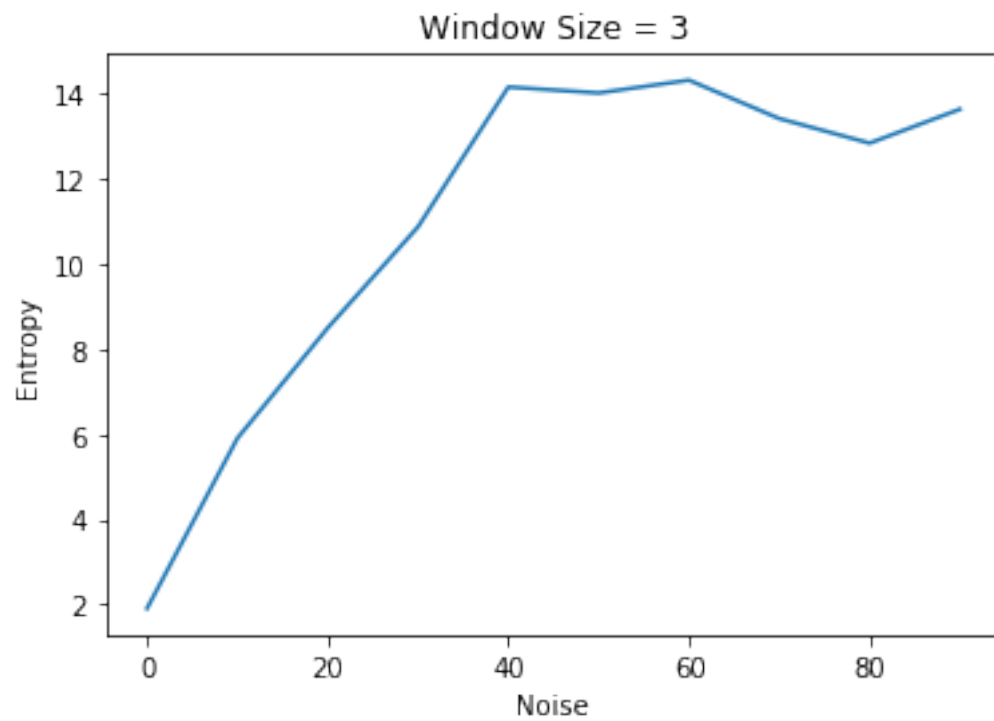
```

In [130]: plotter(1)
          plotter(3)
          plotter(5)

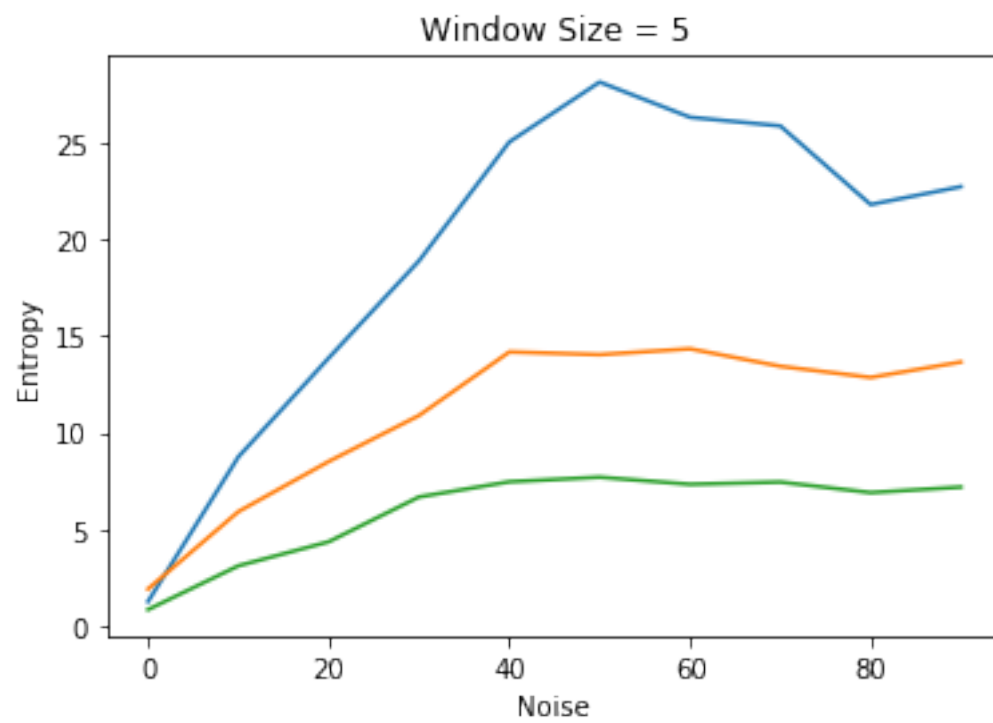
```







```
In [132]: plotter(1)
          plotter(3)
          plotter(5)
          plt.show()
```



```
In [133]: # Done !
```