

Wine Quality Prediction Using Linear Regression

This project aims to predict wine quality using Linear Regression. We will use the Wine dataset, applying key machine learning techniques like data scaling, cross-validation, and evaluating for overfitting/underfitting.

```
In [ ]: # importing necessary libraries for project to build algorithm from scratch

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.datasets import load_wine
from sklearn.model_selection import train_test_split, cross_val_score
from sklearn.preprocessing import StandardScaler
from collections import Counter
```

Data Loading

The following cells load the Wine dataset from scikit-learn. The dataset consists of various chemical properties of wines and their respective quality ratings.

```
In [59]: # load the wine dataset into a variable

wine = load_wine()
wine_data = wine.data
wine_target = wine.target

wine_df = pd.DataFrame(wine_data, columns=wine.feature_names)
wine_df['quality'] = wine_target
```

Data Preprocessing

Here we preprocess the data by scaling the features. Scaling is crucial for algorithms like kNN since they are sensitive to the magnitude of the data.

```
In [61]: # Data preprocessing to handle missing values and scale the data
np.isnan(wine_data).any()

scaler = StandardScaler()
scaled_features = scaler.fit_transform(wine_data)
```

Algorithm No.1 - kNN Algorithm Implementation

We implement the k-Nearest Neighbors algorithm from scratch.

Euclidean Distance Function

The `euclidean_distance` function is a critical component of our kNN implementation. It calculates the Euclidean distance between two points, `x1` and `x2`, in the feature space. This distance is the square root of the sum of the squared differences between corresponding elements of the two vectors. In kNN, this function helps determine the closeness or similarity between data points, allowing the algorithm to identify the nearest neighbors to a given test instance.

```
In [62]: def euclidean_distance(x1, x2):
         return np.sqrt(np.sum((x1 - x2) ** 2))
```

Implementation of the k-Nearest Neighbors (kNN) Algorithm

Here we implement the k-Nearest Neighbors (kNN) algorithm from scratch. The kNN algorithm classifies data points based on the 'k' closest training examples in the feature space. In our custom class `KNN`, we define the necessary methods:

- `__init__`: Constructor to initialize the number of neighbors (`k`).
- `fit`: Method to fit the model on the training data.
- `predict`: Method to predict the label for each test instance based on the majority vote of the `k` nearest neighbors.
- `_predict`: A helper function to find the `k` nearest neighbors and perform the majority vote.

This implementation provides foundational insights into the mechanics of kNN.

```
In [63]: # Implementation of the kNN algorithm code

class KNN:
    def __init__(self, k=3):
        self.k = k

    def fit(self, X, y):
        self.X_train = X
        self.y_train = y

    def predict(self, X):
        y_pred = [self._predict(x) for x in X]
        return np.array(y_pred)

    def get_params(self, deep=True):
        return {"k": self.k}

    def set_params(self, **params):
        self.k = params.get("k", self.k)

    def _predict(self, x):
        distances = [euclidean_distance(x, x_train) for x_train in self.X_train]
        k_indices = np.argsort(distances)[:self.k]
        k_nearest_labels = [self.y_train[i] for i in k_indices]
        print(f"Distances: {distances}, K Nearest Labels: {k_nearest_labels}")
        most_common = Counter(k_nearest_labels).most_common(1)
        return most_common[0][0]
```

Preparing Data for kNN Algorithm

To train our k-Nearest Neighbors (kNN) model, the first step involves splitting the data into training and testing sets. This step allows us to train our model on one subset of the data and then test its performance on a separate subset or test set that it hasn't seen before. This process helps in evaluating the model's ability to generalize to new data. We use a common split ratio of 80% for training and 20% for testing.

```
In [64]: # prep data for training and testing this code will split the data into tra

X = scaled_features
y = wine_target
X_train, X_test, y_train, y_test = train_test_split(scaled_features, y, test
print(X_train.shape, y_train.shape)

(142, 13) (142,)
```

Implementing Cross-Validation for kNN Model Evaluation

To thoroughly evaluate the performance of our kNN model, we implement manual cross-validation using the KFold method from scikit-learn. Cross-validation involves splitting the dataset into 'k' number of folds (in this case, 5) and then iteratively training the model on 'k-1' folds while using the remaining fold for testing. This process is repeated such that each fold serves as a test set once. The accuracies across all folds are then averaged to provide a more robust assessment of the model's performance.

```
In [65]: # Implementaton of cross-validation for model eval

from sklearn.model_selection import KFold

kf = KFold(n_splits=5)
accuracies = []

for train_index, test_index in kf.split(X):
    X_train, X_test = X[train_index], X[test_index]
    y_train, y_test = y[train_index], y[test_index]

    knn = KNN(k=3)
    knn.fit(X_train, y_train)
    predictions = knn.predict(X_test)
    accuracies.append(accuracy_score(y_test, predictions))

print("Manual Cross-Validation Accuracy:", np.mean(accuracies))
```

Distances: [3.373441528671851, 3.7936223822897577, 3.8727164665802394, 2.6809202981921048, 1.879877204797264, 4.299768820170305, 2.704624115947255, 3.8831765271341565, 2.7535473537367934, 3.3801860081707824, 2.7221346119406276, 2.578817204921016, 2.615408638652882, 2.620939428589678, 3.979096143824973, 2.926648777232473, 2.697219176627853, 2.714995764068673, 2.0981359050457886, 2.418171508417132, 1.564057275778681, 3.1068077855592757, 2.7940377728191192, 7.992326298996219, 6.864269660995366, 6.448987652175551, 5.2887224716584464, 5.008834810664854, 6.026541489277149, 4.359730213759165, 5.086657418503422, 5.764737685836347, 5.6733322175072445, 5.266720014254106, 6.029465670682586, 5.1626578372566625, 5.57021225255191, 5.1250530801419565, 4.6387933778386286, 6.315794919922067, 5.697598353971403, 5.827856277826759, 4.597539965676134, 4.981062541915964, 5.901791675041348, 4.33299834279563, 6.421520203199345, 6.653598192296698, 4.921570714800028, 4.552838925208391, 6.175530305507214, 6.555646129754338, 6.126873572466365, 6.475583832169807, 6.364007896175228, 6.316424913153761, 6.619713564600754, 5.103037684937479, 5.304040659696532, 4.691395171148668, 5.841420832988137, 5.247605294646951, 4.704821174209944, 5.521231294052342, 5.319403265963082, 5.79601775727764, 4.9097103707679635, 6.238677492891098, 5.060484210529422, 6.4408275431833415, 5.544587467342803, 6.114463076908915, 5.354457786121178, 4.795165153738627, 6.09971737486263, 5.589552065157693, 6.372433027510927, 6.201217230207217, 5.916316593270158, 7.150053394344815, 5.881161028238054, 5.059217160840624, 6.968930272629577, 5.827613751637353, 4.920853674327999, 6.79894864201626, 6.256329349194024, 6.199263855872773, 6.0108866088357855, 5.549856586588765, 5.354630283829668, 7.060519235579504, 5.782440991201539, 6.57777383329106, 5.910258828249061, 6.435687066244419, 7.055492585491855, 6.548423996747548, 6.849643230394973, 6.987926228060835, 7.964892820481436, 8.022244693661992, 6.910589596434599, 6.393500643290528, 6.548631962870527, 6.200980350518088, 6.876389492241815, 6.423599613977766, 6.228894835854567, 6.422740161007204, 8.305978058963221, 7.391761523171228, 6.5727587435588175, 6.714773290447842, 6.5293096231691, 6.778927105070349, 6.326106857401167, 6.780907289630306, 6.732642370837262, 7.506491504869618, 6.742942145726734, 7.514895029037392, 6.669568693741193, 6.554184981859626, 7.172334643623881, 5.947140103624542, 6.495119104124296, 6.214673381653758, 6.792466131947702, 7.247602595029954, 6.320699567894302, 6.909157210488387, 6.0489262770504935, 6.621592580900693, 7.034649543076, 7.609047130255712, 6.360782871374365, 7.226416655642054, 6.296512701263164, 6.490941295140659, 6.078780909740053, 7.18442107269337], K Nearest Labels: [0, 0, 0]

Distances: [3.2063717079007192, 2.9225213583316556, 1.857356008927494, 3.955546727866981, 3.237651523376218, 3.1831524363081782, 2.863393657186491, 3.353587570163392, 2.524854569440189, 3.7175320428866048, 3.28998062333012, 2.679501574137466, 3.592957904089857, 3.5123370971328067, 3.4256229665919498, 3.421333918496605, 3.2704082751967034, 3.588921763259348, 2.450655193730204, 4.047656258297852, 3.082417179367797, 3.089198230025933, 3.516436601248767, 5.2638616381696846, 5.2133559029891146, 4.816575335330324, 3.5612848099989147, 4.027028439118492, 5.044047860741508, 3.8838980969456776, 3.699579612817411, 3.9168206171519344, 4.494761680499899, 5.621844123784958, 5.017259520991699, 5.512963281552636, 4.77282387346412, 6.820477183027289, 3.9690901445921445, 4.34101838708404, 3.8168925429342804, 4.544520183386207, 4.763552933572175, 5.037555316622388, 4.361876836285586, 3.072618808030696, 5.472683126840519, 6.0391613642651665, 4.418453586483245, 3.409154485823083, 5.274762759135494, 6.01079964366289, 4.947301547018691, 5.2468123387022905, 4.974421497608814, 5.457604742464897, 5.548907582044401, 4.004515334085601, 3.916464279318866, 6.348473531685109, 5.963136627207736, 3.4085125933904683, 3.697022252951943, 5.07445384921083, 3.4282692678608453, 4.0794637300889285, 4.22757672880962, 4.508420037875779, 3.6691816879149965, 5.751640820897819, 4.049592974448334, 5.286896788031627, 4.33931146240364, 4.701056737039996, 6.148802364986425, 4.277493977824499, 5.792298192511575, 5.08200748654779, 4.909236713599219, 6.222934264313225, 4.449248921565113, 4.640817216195849, 4.980250490914448, 4.459874825309674, 4.205906325349696, 7.955464815184808, 6.4776577128221104, 5.713167375924255, 5.858435832822598, 4.2964541011958755, 4.679090024988539, 7.0715983930194755, 5.328651369639992, 5.4240354279065235, 5.076441343803015, 5.442980368783281, 6.273914929524032, 5.621149928720686, 5.467187019890355, 5.797138493113288, 6.822338404868073, 7.609434196667395, 5.786361622472396, 5.937498193217145, 5.808984823395614, 5.

000203522970779, 6.352789816802762, 5.552511993140562, 5.368941909784647, 5.637299686681096, 7.121341291783203, 6.517421258008535, 5.992510066221349 5, 6.421748534501509, 6.845495122671953, 6.623924416154667, 6.7294816417205 37, 6.466063240081097, 5.969555474060535, 7.076843508136972, 6.287176321461 0805, 7.324858320389039, 7.777604532500777, 6.8988438000755945, 6.190765553 510181, 5.430576826880588, 6.074320231184471, 5.247112901069276, 6.18311289 9213956, 6.586074852899218, 6.555877517345961, 5.8648643503284985, 6.346339 218710729, 6.92139388331757, 5.678650787467184, 6.434186709622531, 5.971546 644058431, 6.7122491472694605, 6.108392594822019, 6.396899686036748, 6.0949 27142155376, 7.367719216855416], K Nearest Labels: [0, 0, 0]
Distances: [3.2562242266422197, 2.985029888758463, 3.86367262025753, 3.9216 631418443404, 2.6435267011563446, 3.6812149893001935, 2.9251038240483562, 3.5395007501488474, 2.930852190823815, 3.6992321789516893, 2.88227947323930 6, 2.963813753893028, 1.932297324662609, 2.7729534873302693, 3.374582655111 5106, 2.0476420944526037, 3.2497776373978926, 2.7215328451056338, 3.2566755 831859453, 2.0260687496366736, 2.9987165402105562, 2.226286896709778, 2.595 767692668037, 8.325583425946547, 6.702377065821172, 6.384655119449823, 5.60 5770358256073, 4.300653570897493, 5.619033280282428, 3.122495284217663, 4.8 77251442163155, 5.4690572757859774, 5.943851197508551, 6.283786536739167, 5.411112442920569, 4.330287631944894, 5.174151075363393, 5.097809471292968, 4.00226997753431, 6.01598954249851, 5.7422442042517705, 5.651750846216384, 5.041127796132877, 4.040045097195243, 5.534285386684822, 3.553840927095717 6, 5.201356367730481, 5.559205101688377, 3.8398814747569197, 4.543868556612 521, 5.200895316333191, 5.424634905998405, 4.884133801038965, 5.33437297353 0294, 5.331684172805328, 5.291458287798844, 5.673877917008513, 4.3816501502 58438, 4.821312712813656, 5.272058311708292, 5.579076769916807, 4.748751311 972529, 3.8655570611281833, 4.284491170883624, 5.229014724563797, 5.5744111 74976884, 4.352978680954029, 5.597816082629357, 4.630863351434095, 5.840451 029836917, 4.784146167285702, 5.169958468458922, 4.889463227486176, 3.12508 1155780165, 5.085467513402358, 4.995837764545979, 5.429410846370033, 5.0562 04259226186, 5.061839216643505, 6.076747377343995, 5.307994059995388, 4.815 997094269957, 6.550518094749829, 4.99631776717431, 3.7685702615063184, 5.74 3619443925145, 5.140876766327542, 5.2730757796374865, 4.430986725859413, 4. 802335491230425, 4.367436512397291, 5.537093462249974, 4.703817882308042, 5.251204437537145, 6.030970488436478, 5.990553304135259, 6.380560479509717, 5.979378222055081, 6.114888182665796, 6.431050258695905, 6.890935932674493, 6.926653343901201, 6.436424627342188, 5.710112766840931, 5.955595075752298, 5.870219508060732, 6.356094961652974, 5.848451782428699, 5.859301658603715, 5.9026038955721125, 7.736455924215873, 6.475077696472973, 5.79257135486908 6, 6.265335693949703, 6.202974693512184, 6.291766394294863, 5.6341333235155 435, 6.077935846156874, 6.320767262278292, 6.529753895142322, 6.02400183356 1214, 6.373575476569704, 5.769625777668913, 5.420678201391228, 6.1629531445 62564, 5.7131318588899624, 5.952308179300218, 5.877958120540084, 6.27419109 2997838, 6.5812467699325286, 5.657814829254492, 6.188039317079522, 5.269698 508370398, 5.918032826128938, 6.489049966151427, 7.067098923394877, 5.87930 1166022945, 6.545884276426182, 5.464903890402558, 6.253677232699338, 5.8517 93305372056, 6.353885028630744], K Nearest Labels: [0, 0, 0]
Distances: [4.301014865359977, 4.342811648828744, 4.774970529548772, 3.8094 46792646228, 3.0188460519617553, 4.606253929264469, 2.4536129495612915, 4.6 1354984962389, 3.5095417847012333, 3.615430355135219, 2.915243612528452, 2. 7772057829324366, 3.0280742832458483, 2.5121693159457936, 4.21671590624416 4, 3.4582142875382025, 1.882835194390765, 2.8398593387391466, 3.11762579921 0092, 2.7573014745170403, 2.316035679427557, 2.9198592745448195, 1.73866278 86335315, 8.931275933940778, 7.844913039103784, 7.305687532951534, 6.332748 372994077, 5.435460366803865, 7.428221071142875, 5.3025727056592045, 5.6947 20578012534, 6.675310336163567, 6.505720607543095, 7.247919457006495, 7.146 403354644534, 5.803031252176261, 6.445711932365632, 5.795366673099157, 4.93 9169084010734, 7.6029411725593805, 6.8206294750874585, 7.182680252445299, 6.386285309850226, 5.95912973581439, 7.131754617165164, 5.339328687235118, 7.308116877117528, 7.349467667725129, 5.946318080975877, 6.081634501357684, 7.344734554388763, 7.599012221590488, 6.966986253000112, 7.21641690163938, 7.485780393884213, 7.485934859498921, 7.638873241941124, 6.338859779803064, 6.188875071320571, 6.3691493007610855, 7.192784033879883, 6.30349935918130 5, 4.808320284000524, 6.572504778750878, 6.463549142175384, 7.0935772151923

72, 5.84322424680541, 7.083566011851416, 6.092392797727856, 7.6538339662859
3, 6.7030093695560655, 7.151963154214922, 6.52581663287334, 5.5512950841547
54, 6.679009894307121, 6.4014464899745045, 7.4539265248840065, 6.9998308928
07084, 6.653482839498049, 8.300663253401153, 7.011159793775577, 6.566546776
856749, 7.7752333821345365, 6.924674234594273, 5.529308837244951, 7.0986863
52685943, 7.172042929922879, 6.69593564970557, 6.495545469534751, 6.3308069
67293592, 5.857185569180373, 7.744156929085945, 6.711573687318612, 7.125957
0172102755, 6.929258780330443, 7.206064695621493, 7.668357126416078, 7.1097
89455140111, 7.388001293731049, 7.570422536221123, 8.49391279265815, 8.5451
24971190733, 7.573180315450148, 6.9688158980358335, 7.367296183989023, 6.85
5910238451676, 7.662995783288999, 7.074398185320633, 6.849275414369749, 7.0
93862119791557, 8.865443017364802, 7.611791727364501, 6.742829571949585, 7.
168851107392768, 7.064707447022379, 7.119945477503015, 6.692988282785411,
7.0547973674697175, 7.413030162746467, 7.752917498131963, 7.02307121656845
4, 7.696024047181606, 6.293219506139642, 6.308892336296173, 7.2897313016573
69, 6.72668779186871, 7.377508110696913, 7.040175276386697, 7.1767485077797
51, 7.879005995535881, 6.6909633252885525, 7.204074940898701, 6.48427423433
4725, 6.832322881956432, 7.8422154671644195, 7.991604145621479, 6.597223771
266317, 7.501526015649091, 6.6475826280380295, 6.8888548370708325, 6.626637
281733679, 7.275196727896956], K Nearest Labels: [0, 0, 0]
Distances: [2.240641244942829, 2.8737353473786875, 4.102627163882502, 3.847
6678936693616, 3.151522947227247, 3.99662505662143, 3.7466318724891683, 3.1
151254307525944, 3.5844992554994652, 3.1641556797327812, 3.840556687114449,
4.188197256328402, 3.0070898151999934, 3.998342612688796, 5.51591175035853
4, 3.6918900579933736, 4.075278544701685, 2.8154342488581667, 3.52322059818
2946, 2.9943518772548567, 3.465795478925868, 2.8290535553303733, 3.83693844
639828, 8.064912745581477, 5.431692238589487, 5.326766001187938, 4.97763151
0752584, 4.514309956725966, 4.106202786912669, 2.929542729282369, 5.8747056
99212419, 5.354654158355049, 4.416861164045138, 6.186419412661596, 4.801886
402997017, 3.750092563100448, 4.274976288731748, 4.1154227775828005, 4.0391
96766820542, 5.485379845601662, 5.817913693231219, 4.28713256479081, 5.1226
48900096848, 2.918253043983793, 5.167262100329059, 3.8526853039511657, 4.48
0958722540193, 4.673439610788562, 4.0010137109873085, 3.8805674469174694,
4.317918567048561, 4.350648846646637, 4.090907084388016, 4.896974601054361,
4.7374479559550435, 4.4581346760048755, 5.015326279709161, 4.19326812113940
8, 4.230388758177634, 5.140518602574319, 4.180708074058483, 4.8641034037730
24, 4.475448578174984, 4.551609894564051, 5.27244416600784, 5.3155323645599
095, 3.1236331217953968, 5.153498687162217, 4.559895721862462, 4.7056014666
60789, 4.677137737658706, 4.477138130339182, 4.71962422955915, 3.4046889516
832075, 5.925532462265147, 4.179760240637439, 3.716884829038245, 4.17221100
3418232, 3.900344276716052, 5.6915615738639085, 5.030390072745676, 3.672265
0292746257, 5.882887619819373, 4.816839725404364, 3.5102891962699676, 4.533
695949420274, 3.4732586053539283, 5.020581841662635, 4.992690189766511, 4.1
92596177462979, 3.948548625012883, 4.151675544735145, 3.9595488352843957,
4.48493117312835, 4.922483355111197, 4.866698025722461, 5.2875534497158485,
4.875324690898964, 5.462257322605225, 5.552795703881626, 5.702923922437638
5, 5.394908400635613, 5.417551244663467, 3.8496581821368756, 4.361766068081
912, 5.001309983715813, 4.509539608220277, 4.646121938519193, 5.30368521063
5077, 5.080917555594546, 6.818514178400635, 5.517227511078641, 5.0106246843
31327, 5.274842832215674, 4.945288517165816, 5.486313403299572, 4.215146215
793793, 5.699534845029805, 5.648005843610371, 5.789349572066463, 5.39702086
8861864, 5.1551157186725876, 5.6716699050367145, 5.2541689916239855, 5.2089
44495222318, 4.104617717981266, 4.234548853904818, 4.750068983890191, 5.553
575147207274, 5.60490063927542, 4.62892001408411, 5.654062161633496, 4.2492
01704740477, 4.493668901161201, 5.409523031193687, 6.255262100653699, 5.220
928154780963, 5.600390278947474, 4.439879698036375, 5.492767226734038, 4.94
9587706284372, 5.135208860676511], K Nearest Labels: [0, 0, 0]
Distances: [3.219701318037445, 3.196234569539814, 3.529205049855167, 3.7485
732664569933, 2.5971479863854507, 4.006024346846972, 2.5156050176731264, 4.
081997833679232, 3.0813894401322535, 3.3208588808648067, 2.653545876546395
7, 2.5730731486680933, 2.180980632505536, 1.7258169907769914, 3.65729870555
0216, 2.728198583627539, 1.6035102891541326, 1.6050092579850366, 2.51053185
02859744, 2.6740611636780947, 2.0494790365557147, 1.9333663902149478, 1.767
1854938512825, 7.833899855481297, 6.374814898844968, 6.0617766197410345, 5.

187584235132087, 4.995448119542427, 6.154271340057753, 4.1990663573562585, 5.125843020900806, 5.96761377376904, 5.216406579631569, 6.565016278131864, 6.024030158734611, 5.447497173170172, 5.7742929207292555, 5.80844049273451, 4.746424143907767, 6.411221766695876, 5.834744608049466, 6.144834812504746, 5.365855104287498, 5.343611738020874, 6.243896770125324, 4.507529564887177, 6.372559641261958, 6.414295075903257, 5.486258036811371, 5.128408650406934, 6.228292486543868, 6.806205153092073, 6.0391748421197295, 6.474633739305262, 6.306899693283048, 6.493439347053855, 6.483300152001882, 5.701539535153795, 5.629783472432328, 5.777259359351713, 6.56942898164579, 5.356900264760048, 4.38002453261306, 5.696050554271012, 5.519853725180066, 6.114199746068068, 5.386575051229051, 6.255323223920782, 5.404468728965704, 6.78583911238123, 5.825532937186228, 6.197802944936088, 5.833245802102709, 5.144578980714144, 6.595665801300931, 5.816007263488939, 6.299337581828643, 6.086075141279575, 6.01251056940854, 7.245956053222875, 6.333331112014314, 5.779855234777553, 6.838689261073597, 6.160754572525049, 5.196231045387747, 7.119013485430888, 6.737690702544018, 6.4902966214751325, 6.551435053000788, 5.776330804601973, 5.416581257764871, 7.057200061597816, 6.08246036055479, 6.463603571290417, 5.985880520179244, 6.364525331730361, 6.9245329040237795, 6.40288064377485, 6.275576348596104, 6.475111781627834, 7.524215458037049, 7.7708783290523575, 6.5496214643643675, 6.175679784693364, 6.463614668526234, 6.061561350310373, 6.777861664555621, 6.210332211637667, 6.169733275066315, 6.248081628828373, 8.07127648405605, 6.997060577712782, 6.11265367636036, 6.549635156011257, 6.611015458330667, 6.717387763916033, 6.328350091353374, 6.289121826041108, 6.498848628095838, 7.032580488274167, 6.389203289323173, 7.011046971785027, 6.2496076189693275, 5.994365104646419, 6.648418348080152, 5.675072906808394, 6.4125778736266525, 6.110943548285893, 6.441046103898658, 7.030801220045803, 6.020410933067863, 6.449373938452969, 5.875300681446837, 6.564426248799266, 6.953878052735678, 7.20860697659566, 5.9074649929754965, 6.813117209436469, 5.954626534877352, 6.250459549364805, 5.817360529421111, 6.761643051205151], K Nearest Labels: [0, 0, 0]

Distances: [3.0796947449444194, 2.8109715445184595, 2.994797677937305, 3.703546159959938, 2.9540720176472735, 3.226988442741197, 2.3321383117108647, 3.5655319134165016, 2.92622656267674, 3.0974443077215628, 2.402367999129223, 2.4245352084870153, 2.2313062161335897, 2.6085920437871586, 3.4581713880171567, 1.8536256528372514, 3.004628153597764, 2.5515235058794516, 2.4635303580441574, 3.0384895031705312, 2.482445704515887, 2.428128069168318, 2.8234839244043513, 7.1293147283593346, 6.136843539465048, 5.826485499383678, 4.455199088436241, 4.8204371380171525, 5.713467238753697, 3.9934574943194696, 4.521444946458312, 4.90946497549044, 5.118822613641444, 6.3924520160967715, 5.329245409336419, 4.869263661789488, 4.798890007515173, 6.275566162891578, 4.562610390225987, 5.777851713763905, 4.9876298348870405, 5.566311834090015, 5.346388578762424, 4.97201015991623, 5.4880321787886155, 3.4808955041189016, 5.537441209396488, 5.7805701230213415, 4.645730472049294, 4.228379060209601, 5.56878611953325, 6.058063698659063, 5.269722829078647, 5.437684155679623, 5.398338928810062, 5.576776472645138, 5.606918955093861, 4.711676913265252, 5.214846659757708, 6.309643032032311, 6.233431947000978, 4.647390911472455, 4.466001259758559, 5.299660144262706, 4.898671000496634, 4.941082698361513, 4.642697468693417, 5.616152666294435, 4.2851622029966, 5.909193266963182, 4.627202432675412, 5.250646773878847, 5.062628410526222, 4.6819614085808405, 6.500713271140751, 5.056221963389256, 5.948973256712394, 5.689261356854516, 5.3263077008045245, 6.819477894646271, 5.275296493167238, 5.131015286471455, 5.872994919282682, 5.129906684633892, 4.7825621355688845, 7.569659041569381, 6.170422452978031, 5.760784359997598, 5.822573990691805, 5.046242987086677, 4.972379180664597, 6.743023975249219, 5.399130347191158, 5.66492420515253, 5.727738174752933, 5.817301436531433, 6.372852912741413, 6.035175866367483, 5.799125371694337, 6.090286132122473, 6.960756780751738, 7.392395262746305, 5.845501804840119, 5.82119328636937, 5.69025893234331, 5.014625149540288, 6.079504394732646, 5.505582787452961, 5.773279133601071, 5.634028430550793, 7.155770848869466, 6.416184829431591, 5.718395179489416, 6.414511006574935, 6.545365947402562, 6.587750164756369, 6.354390394874782, 6.127456597785435, 6.162425961990424, 6.707926118525003, 5.873683322879737, 6.8535706494966355, 6.463027113697691, 5.99688055314294, 6.371342451135352, 5.256578394887542, 5.956871839069922, 5.508502521495293, 5.855576301603624, 6.28922481654237, 5.981135790606708, 5.925905504170971, 5.537068124638783,

6.367139112838785, 6.226638770860448, 6.668322626495195, 5.38336191741574, 6.342853746751353, 5.6361645152425774, 6.224681775613276, 5.82733623538393 3, 6.53466797524412], K Nearest Labels: [0, 0, 0]
Distances: [2.458086002102678, 2.7328871323531185, 3.3918428626683514, 3.45 6409168461875, 3.187066670852403, 3.643567141577463, 2.7996678413815825, 3. 5967503827151135, 3.340625963233802, 2.3293905378221615, 3.196937287751346 4, 3.4452706350931313, 2.9444420757271708, 3.04175486396729, 5.001803376665 645, 2.9673927713355805, 3.2235765066915847, 1.7920995611296777, 2.19448521 05870227, 2.9368167838372004, 2.589222026197811, 2.356400881748201, 3.10617 35123807113, 7.5648322156866525, 5.756571919145853, 5.680057891729177, 4.54 8766174677337, 5.25864643980417, 5.213390174564052, 4.204493851216556, 5.85 09477199229405, 5.333980257491848, 4.46245219140756, 5.976310324372536, 5.2 01684930683728, 4.9226257252535826, 4.747273851005668, 4.871085572439911, 4.365316877905594, 5.863802888753758, 5.726027527546069, 4.985240915228013, 5.3691036893425865, 4.676891759374356, 5.764791103498562, 4.11108979352951 6, 5.5530982593723985, 5.920752490422145, 5.0895052389138895, 4.29128127694 3555, 5.512744384621345, 5.649100563451607, 5.227928844943378, 5.7319823208 633585, 5.792783946781293, 5.676011241264656, 6.007563736182587, 5.17085355 1398939, 5.071448461345326, 5.660724090762182, 5.167362371394309, 5.3347185 7245586, 5.022209923912458, 5.943249835554608, 5.123465744866968, 5.3641247 026458325, 4.3068349535614585, 5.898916841770865, 4.686820444589525, 5.8845 56761007148, 5.215621208446125, 5.516475698372369, 5.5867433155829165, 4.91 6535744551196, 7.012947686563158, 5.0952172600921735, 5.229269132976732, 5. 618547767188141, 5.151495939532994, 6.938342524152772, 5.553587015211428, 4.779587243648284, 6.250526324822337, 5.5414872733338925, 4.733792806893255 5, 6.578879962180004, 5.547000244234716, 6.062230734552841, 6.4120491419114 32, 5.177205852363649, 5.275182371402879, 6.3075425466780795, 5.51077184322 8636, 5.698854461702361, 5.128232742156285, 5.416566641934849, 5.9867122247 777855, 5.49411994639622, 6.102556639474261, 6.051071284649299, 6.661464384 161577, 6.869112544129958, 5.88531530443061, 5.075406517268888, 5.212580403 099862, 4.919175868512625, 5.42604196848952, 5.3561636535469646, 5.39240724 4587482, 5.486853443228483, 7.274282399045359, 6.26845370941645, 5.70472119 9378345, 5.94487813663283, 5.784045472431345, 6.180741789526817, 5.68267900 0823398, 6.373531783089865, 6.159590379560554, 6.682576930215532, 6.1433932 63084341, 6.3025458915213255, 6.698889111897861, 6.341713574558658, 6.26167 1058206307, 4.627097007100061, 5.31163471294273, 5.152123212744504, 5.88196 2798798062, 6.291010276828394, 5.467782483911204, 5.976577687198747, 5.1185 20389813402, 5.512091793054686, 5.992421292165018, 6.687760796898723, 5.541 889413832487, 6.153403193076454, 5.307446783706879, 5.7614030072640325, 5.3 70791168628756, 6.24851040746794], K Nearest Labels: [0, 0, 0]
Distances: [3.5483612215781752, 3.192666594193486, 2.7134172290390617, 3.80 3108716800587, 2.7907366742408364, 3.359848090787638, 2.7926676140532822, 3.6242845526257756, 2.8050997194824117, 3.523221180494487, 2.34146303646747 27, 1.9729755708267918, 2.159227912389695, 2.568117651280497, 3.16393847889 3106, 2.728548073082365, 2.8850339869071124, 3.188169189363529, 2.516672982 012929, 3.318327190069843, 2.2454165475998673, 3.025446834794907, 2.9065154 567054265, 6.465306139641085, 5.989344478619777, 5.37626342880054, 3.858525 143575854, 4.31229174131675, 5.684561289754873, 4.016513756196527, 3.654260 753175991, 4.853785977540203, 4.920648025199502, 6.211461901854061, 5.49088 9021343966, 4.819918639259323, 4.7461528196921865, 6.559139280610264, 4.734 59704947573, 5.491674755389971, 4.221879834227011, 5.703111505502827, 5.062 245189544775, 5.059852161285283, 5.1876198065127035, 3.541639450924909, 5.8 31816152125287, 5.8408621740222655, 5.047046149082004, 4.160485264753566, 5.559471291180732, 6.545389801458987, 5.70099909023162, 5.754162092108265, 5.479700565186198, 5.876937330854282, 5.60333782300224, 4.672937660027933, 5.104797386286936, 6.2604988680225295, 6.642925805067446, 4.15640003342375 3, 3.939371707032935, 5.031694846324605, 4.568457825205387, 4.8194608731212 93, 4.987102596068585, 5.317832761141536, 4.419925355243222, 6.161740247701 623, 4.775866651469938, 5.354492503195302, 4.82209409167756, 5.188844145171 815, 6.304626771832585, 4.875405724026966, 6.46660687222742, 5.761316183747 244, 5.574651133573224, 6.785507653212071, 5.399065299270824, 5.08427845750 8021, 5.677202129455704, 5.251292304843939, 5.173457696946841, 8.0707898854 84858, 6.6208244454025476, 5.736186324831804, 6.105239659412693, 5.07368486 28352655, 4.8557288557116, 7.108846769983083, 5.407789509878831, 5.97457924

1184201, 5.535178681196253, 5.795539447619318, 6.422596694427065, 5.9702558
72413799, 5.730501618950372, 6.109976355756162, 7.238384948966174, 7.685095
494175515, 5.80904873366718, 6.09582309053685, 6.160737773047578, 5.3798485
021474205, 6.388039986896472, 5.537921270946161, 6.0357839978509125, 5.7176
06284789884, 7.097706938665869, 6.7034144301263465, 5.786459916135368, 6.39
091371751489, 6.565026061274753, 6.6389586047107745, 6.3749867234143585, 6.
1239707024797605, 6.1065020079159895, 6.8380959395324, 5.837551150658398,
7.27680619123035, 6.530928046800859, 6.091686426630225, 6.435585273905867,
5.380868818632473, 6.271687508688583, 5.653954257326412, 5.860227893683211,
6.323024514099738, 6.144287354412326, 6.062901932841137, 5.863832410534007,
6.745059812903451, 6.407926058273762, 6.70718976740672, 5.4371690847583904,
6.554462693113605, 5.800050229107191, 6.31618800913498, 5.970150976378938,
6.709952523723941], K Nearest Labels: [0, 0, 0]
Distances: [3.284305370032432, 2.938966584315364, 2.7933109015309756, 3.724
4577075850134, 2.1898635497910615, 3.2509843126340057, 1.8101749328581587,
3.464252996123055, 1.9823698840418302, 3.3213369953741827, 2.50866661790105
4, 1.1641136694837708, 2.1793097677243516, 1.849402739770546, 2.85166020756
9495, 2.267994091761179, 2.2568273072500826, 2.905103392607964, 1.858125611
6272327, 2.4938482999125666, 1.7427462742055573, 2.387309779849274, 1.99764
00793194586, 6.891412886972261, 6.314765790903273, 5.582228389648778, 4.210
593387887463, 3.594603902292093, 5.676763904929539, 3.741168730270019, 3.49
47138271891536, 4.242207064361192, 5.2880418843170816, 6.060515580804293,
5.5723631213403655, 4.447100132008907, 4.530392158798691, 5.79691563857122
8, 3.6859368947746463, 5.4749118611876595, 4.371716279511415, 5.60104620505
7062, 5.230618241520028, 4.861080553749888, 4.860304821327175, 3.1065871877
976687, 5.534475864690745, 6.08429136591597, 4.331470025826252, 3.918370867
9239815, 5.527559388929085, 5.983945656149637, 5.340134798248649, 5.3775922
942851, 5.621553710531569, 5.668602745297166, 5.876446081382704, 4.37742966
8878609, 4.373371382040405, 6.21079942756186, 6.210575784651203, 4.06847012
7393109, 3.1906559942970727, 5.158022541767603, 4.354284128276039, 4.846440
073289597, 4.348426186352508, 5.175410720955338, 3.961479028326727, 6.07267
2732832925, 4.485484901846161, 5.370423346246964, 4.591693421343785, 4.3552
8657704837, 5.9579154786499435, 4.572709849243231, 6.254593251103391, 5.309
835809166145, 4.968472926956666, 6.574953137031743, 4.934159499989281, 4.79
69416093949695, 5.970608443898438, 5.190733615398272, 4.236680374806348, 6.
98661029060883, 6.272757953370537, 5.66814614689158, 5.4567606797553845, 4.
505781950981874, 4.300383177017343, 6.717181745123522, 5.088965069827304,
5.782264801720572, 5.608530133325092, 5.78474285993958, 6.276720651048264,
5.88014000242298, 5.933638562575615, 6.25095055428886, 7.418809685384089,
7.7456741617887, 6.2079321187220735, 5.961986447827542, 6.132458303366518,
5.320895148052468, 6.493947612972874, 5.924172528874598, 5.713612530017281,
6.007902034631019, 7.549293972836396, 6.590327489247783, 5.733587406800603,
6.24332858716905, 6.3328968119625095, 6.142242835122124, 6.014766110721069,
6.223966727386618, 6.081113713236805, 7.029991775678933, 6.028081164745266,
7.020745178185057, 6.220246991855021, 5.747503361468875, 6.250776786262243,
5.668997879802306, 6.291358962306487, 5.795985026985689, 5.857281946778766,
6.631907336106062, 5.986472972991622, 5.8464718223741174, 5.66001006620175
8, 6.370179696897884, 6.311120930415545, 6.53279913230486, 5.52314863459332
6, 6.782001463249569, 5.844873139017373, 6.274938527432738, 5.9353174896432
66, 6.762192635754292], K Nearest Labels: [0, 0, 0]
Distances: [3.968842695156979, 3.273855619933588, 3.4194390134939336, 4.113
328909099917, 3.112349818877473, 3.6440918896435153, 2.953291133074122, 4.2
1579925572281, 3.150248345608918, 3.5981551831940863, 2.417098456973438, 2.
541544591747797, 2.051124298131214, 2.0222261543925093, 3.1186938430933573,
1.9101666087963498, 2.8971360786903064, 2.6494845720471294, 2.8131754388170
833, 2.337269946404505, 2.636310670512871, 2.5889097313641, 2.4148554863871
43, 7.940209055781855, 6.976857822525144, 6.670321804197275, 5.125888302125
599, 4.6491916017578125, 6.230462196392178, 4.265816955337623, 4.7540220798
63125, 5.587958096906162, 6.079499093547991, 6.045266268217274, 5.958181055
703856, 4.798810213240746, 5.473035462687229, 5.212293725249072, 4.39331023
7479225, 6.303770191043428, 5.534337452453767, 6.339688049161927, 5.3657914
47327029, 4.996058513116592, 5.811993200946692, 3.9393723547118045, 5.96788
9619415149, 6.553443449596751, 5.368299909883487, 4.907228574452081, 5.8783
68535296306, 6.341777491653832, 5.9989750568240865, 6.111827443525942, 6.30

5133559697905, 6.400475665679991, 6.557839133142092, 5.1901094970531645, 5.421821012842784, 5.596082589078207, 6.46336450426069, 5.046857211268081, 4.231707844088323, 5.183216557737091, 4.980437150595455, 5.753567732327191, 5.456503486288388, 6.140236178940671, 4.9226964164392255, 6.92278949558289, 5.52783752715611, 6.116924272748277, 5.711698793903519, 4.912579079291185, 6.065152006565064, 5.62313909524042, 6.644823322181802, 6.1666046331028, 6.115571406415906, 6.7460285167013065, 5.920346973758862, 5.5021630796898675, 7.0730872269949945, 5.75795278118405, 5.1660775297629185, 7.35044660305537, 6.52058901742384, 6.100610368798637, 5.970361461002457, 5.69223739254863, 8, 5.575609444498641, 7.037975125196854, 5.836779397075634, 6.3550864267302, 6.3525744556607195, 6.560504320138068, 7.031090214945037, 6.44172769318, 82075, 6.897399128191475, 7.108949888929162, 7.7963901484739395, 8.00603104, 9947095, 6.937706316791768, 6.565999022272192, 6.917319679455814, 6.3062070, 55682893, 7.092210845915285, 6.381207001591936, 6.404468754030283, 6.442568, 120561684, 8.236796024135797, 7.386156678274767, 6.601665718062392, 6.96330, 79671851235, 6.92129747440628, 7.137990993936324, 6.681993212200143, 6.9842, 85879732636, 7.038883170986354, 7.406975399015846, 6.867692193982548, 7.427, 695176079669, 6.836589885782565, 6.639817022510796, 7.176659989430638, 6.18, 6933180032532, 6.871762595602136, 6.512274447235043, 6.756808709609209, 7.1, 81360594333805, 6.403425595549166, 6.806753844442635, 6.153350715874389, 6.811690391586077, 7.280268659174566, 7.774514739005912, 6.495756512802125, 7.218450788642432, 6.249203690110622, 6.77396932890511, 6.560641445877666, 7.31155757642345], K Nearest Labels: [0, 0, 0]
Distances: [2.9623395941636295, 1.8914943138163327, 1.9645284478156058, 4.5, 1892971297878, 3.52432632379077, 2.932909267410067, 3.074973731053222, 3.67, 90769942440504, 3.0956296550749656, 3.3711774584191754, 3.1848435035716953, 2.8236586976760556, 2.2861174837403166, 2.7413027631826776, 3.6359011154908, 33, 2.039066253515431, 3.6786366419461007, 2.7224482250716733, 2.4202964240, 851315, 3.122750772338143, 3.0104387416141187, 2.4646982336798544, 3.142764, 278974414, 6.2046041092794075, 5.207819685807504, 4.911190085019362, 3.2162, 75228711276, 4.3429974269938825, 4.7798073917575925, 3.4216210885980725, 4.327334009745373, 4.128539606944892, 4.344309778138445, 5.924421914850079, 4.295989408364645, 4.400517270656511, 3.8520748032564733, 5.90945077687688, 7, 4.096456393761979, 4.774631060798639, 4.0202686783198, 4.93137022080153, 7, 5.008217632268371, 4.778632960380102, 4.691645142242743, 2.8009130548298, 184, 4.6229234384784235, 5.341404722564076, 4.555690335387705, 3.5260239470, 047394, 4.5510470959126295, 5.2945793288486325, 4.660234035325471, 4.789962, 887253738, 4.731857202633287, 4.910815576783692, 4.8932624538808085, 4.4442, 25528139322, 4.674559717355742, 6.223065304254881, 5.598811191283917, 3.997, 3216963069427, 4.11480786624231, 5.169450722432741, 4.00831532636858, 3.997, 5591648222397, 4.4614678142387705, 4.897760728064073, 3.713313070211692, 5.672105354115319, 4.061186617105527, 4.557335176130605, 4.741761828189122, 4.69586035258194, 6.6321472623387105, 4.452189760130664, 5.46452631870076, 4.956488555091148, 4.872080902739477, 6.133292354172516, 4.662282727836795, 5, 4.450459919257969, 5.33114313753093, 4.778943779825976, 4.76012930248597, 7, 7.663884529820377, 5.990803714888886, 5.83382625287504, 6.13840725241014, 4, 4.693050540675644, 4.757499269972419, 6.258897801794901, 4.8866581515563, 53, 5.278137910396947, 4.7442970061493455, 4.904854327656285, 5.37717010927, 2248, 5.0749336717068445, 5.182537214044586, 5.474992184600471, 6.322782911, 712399, 6.970995945013632, 5.26068974886497, 5.233883037612344, 5.205694993, 536378, 4.344136406119884, 5.417522459227546, 5.058851612332711, 5.22088362, 61390665, 5.015221040921495, 6.564197861486632, 6.03334347886308, 5.2629853, 59607667, 5.834473195755057, 5.914567040283649, 6.036244955995267, 5.762438, 741713049, 5.951865752606038, 5.520232996141051, 6.420559338346969, 5.65323, 8415582772, 6.330271226782784, 6.577494508793406, 5.944240424042867, 5.9484, 76912197553, 4.6033517428840565, 5.449236647311758, 4.886104049376823, 5.15, 9039771854649, 5.715876890821988, 5.47095714395825, 5.3082076277886125, 4.9, 810866152619555, 5.9985283822693365, 5.529273212088441, 6.0518511167566835, 4.966175245795013, 6.083125845271644, 5.105621862386589, 5.84935272796254, 5.4398156496010435, 6.297949827265422], K Nearest Labels: [0, 0, 0]
Distances: [2.837184583483043, 1.8689758873415179, 2.205811593015706, 4.399, 007943869543, 3.196774918150212, 2.8813830759430172, 2.6023853508257075, 3.5417571388162497, 2.8511802563304935, 3.377474685944866, 2.782359835166711, 4, 2.514791501002677, 1.9973947680041682, 2.354036205826212, 3.086752109352

361, 1.5856140357955926, 3.033245487829308, 2.3841986878263204, 2.635667523
5066387, 2.9494940410611803, 2.895399921447491, 1.7743638399914239, 2.62305
60866115735, 6.635927858758959, 5.4610317134403275, 5.208108088050866, 3.88
07937934278964, 4.034428556670524, 5.022287738947956, 3.173635757805692, 4.
0897695476092455, 4.321671172658145, 4.705380921288205, 6.381999439435398,
4.7826661818942116, 4.400431211565773, 4.345854764934238, 6.03497606762570
5, 3.951264070476957, 5.0597216713614985, 4.404657117727019, 5.206136891720
324, 5.245299401086043, 4.617083348238765, 4.797119700666609, 2.80601546870
6948, 4.714310539154972, 5.383135995175995, 4.381832464617082, 3.8130568976
158785, 4.766733714966145, 5.373877827959561, 4.6039661408428785, 4.7948732
98448938, 4.785363196473847, 5.04001307796627, 5.075054207259381, 4.3478469
41037873, 4.57550259836975, 6.3628969837546085, 5.974349126027044, 3.946028
8413750355, 3.6610615231270542, 4.763586394107515, 4.234699016635117, 4.489
425004796299, 4.435268715176237, 4.967913398143409, 3.8661341088253387, 5.7
34987394615243, 4.156291537214014, 4.787820180691536, 4.754364778731376, 4.
245601635148214, 6.290718977420949, 4.561171593442266, 5.409535090152511,
4.850286706090393, 4.79982672488656, 5.977926287531725, 4.831294306108155,
4.770427943324866, 5.543454848221385, 4.791541389752373, 4.379450391116174,
7.275631087331132, 5.959227701420672, 5.672536891435644, 5.677574825344950
5, 4.588091552895326, 4.539977467961993, 6.1618247196218245, 4.916219812072
072, 5.177609578780878, 5.347747204802347, 5.363728867494446, 5.84692951589
2102, 5.479416324873595, 5.250816541503026, 5.631822922692187, 6.4575472983
5313, 7.009520832058607, 5.529499613287377, 5.396822689218752, 5.4521296693
25532, 4.792185451203938, 5.791360994213879, 5.250139348721837, 5.474058119
256814, 5.390409770632941, 6.93141003637313, 6.095001358403891, 5.380628240
9398785, 6.103717754156446, 6.3058084751497185, 6.265812501633623, 5.989009
342078885, 5.911704896326047, 5.790681134070235, 6.430145882720078, 5.71306
2117153314, 6.372613014946612, 6.376159651023679, 5.7073893133524445, 5.878
190707048278, 4.974279253197282, 5.669212613417559, 5.258004759757588, 5.50
5965318416642, 6.014917450709899, 5.638874801249917, 5.452110498286904, 5.2
50400919896176, 6.162567890970171, 5.830046939798351, 6.251305995384567, 5.
194065160779758, 6.191202380514348, 5.303604987219158, 6.074200520569642,
5.665186900113845, 6.3573711559628805], K Nearest Labels: [0, 0, 0]
Distances: [4.394543997092018, 4.397221180181509, 4.270329989697932, 4.7571
82293874972, 3.6029891551299, 4.918214854317498, 3.9570488532691885, 4.9422
27476703416, 4.194895515875624, 5.019270341727826, 3.2878495468494076, 3.52
1637649526646, 3.0746028780248884, 3.3832256887696324, 3.479406550689621,
3.346096437045352, 3.342311705997336, 3.777498292125006, 4.368870786718519,
4.383969476543531, 3.684471997755242, 3.7072245523198304, 3.83241243974804
1, 8.007860036703836, 6.860966419395796, 6.660051500230243, 5.7040752712771
94, 5.269791668143364, 6.529124070456034, 4.527778972931375, 4.572986145293
985, 6.412227746296562, 6.169745390177158, 7.409988097868832, 6.83626063212
2128, 5.711579076757786, 6.50896608109497, 7.503041469216584, 6.07789620477
0295, 6.731060054840276, 5.790587041619088, 7.0019520759014435, 5.825835692
167268, 5.759457289885159, 6.287859540942816, 4.827963888079645, 6.70763566
9354526, 6.643711693450365, 5.9262589212749415, 5.499917561424376, 6.473125
7017331325, 7.411619306723994, 6.586100704101054, 6.775230066742283, 6.2083
6965282693, 6.76659559180846, 6.437639147988851, 5.676919099202453, 6.32793
739588804, 6.710693467421834, 7.948951007013496, 5.187361348109734, 4.81841
6489387205, 4.896756565309309, 6.002000131649803, 6.421738718625491, 6.3041
14407181193, 6.597181661519017, 5.891185661450296, 7.011260921290981, 5.957
418327042805, 6.4563641395436075, 5.942460884975202, 5.613386813173294, 6.7
98092601776277, 6.3920763021686415, 6.922819112092011, 6.551262421489068,
6.657574372748853, 6.991891479103351, 6.7942170584278605, 6.43874869008194,
7.077921007706102, 6.349043989361842, 6.071476892178501, 8.28767521515053,
7.471106421672159, 6.758985227819895, 6.6506682616321715, 6.29534922848160
9, 5.887988964559211, 7.666922258469393, 6.445937176195006, 7.0039192107724
89, 7.244567868006884, 7.435981744982656, 8.05218464957163, 7.6467022464844
44, 6.645623762497625, 7.158774239986719, 8.237628081983683, 8.491736498330
427, 7.0214537369653085, 7.262541543220237, 7.339438417985175, 7.0663213857
9022, 7.663545010317167, 6.741592949382828, 7.53532847630235, 7.17700486867
85755, 8.514920313142015, 7.91115052973804, 7.068119882356258, 7.8009048555
31616, 8.059823443527872, 8.093542674871006, 7.690225108108087, 6.869283235
813209, 7.351542976104709, 7.686858943256288, 6.899838948966745, 8.18716505

142082, 6.958107585579458, 6.654531685758703, 7.530800958340383, 6.64250987463927, 7.31515284405488, 7.1219137833566135, 7.312788371046976, 7.54673266776055, 7.203341607902879, 7.368755613728054, 7.07586207777438, 8.050656029978464, 7.848634051354448, 8.040211066197243, 6.720877545239363, 7.622663351988093, 7.026267893477933, 7.584539016543609, 7.100074707138455, 7.624652124584073], K Nearest Labels: [0, 0, 0]

Distances: [4.770647484859089, 4.629504063182454, 4.640320675150831, 4.540378839470474, 3.593416466388086, 5.108511013718613, 3.616528522766094, 5.296380898669098, 4.150878246748128, 4.9548451429838325, 3.245807169660038, 3.283705785200327, 3.1431177023346453, 2.7429193923553736, 2.909598246368153, 3.1086827365382717, 2.830377410346971, 3.501607688857762, 4.01646014535947, 3.748317858995623, 3.3664679039344887, 3.5058480140189734, 3.021242298316184, 8.681102589288185, 7.813608937517415, 7.4900456403607105, 6.451911318990586, 5.668848793416513, 7.402959257161389, 5.134482630027606, 5.196960392195957, 6.935429797030581, 7.00112280157676, 7.144641565551068, 7.2757279116230125, 6.321568483456904, 7.134155049246219, 7.127490698417775, 5.898507354484092, 7.36927652004302, 6.499732612941607, 7.5708971214335135, 5.953612597706253, 6.4124367554691935, 7.052773706982614, 5.325210243583706, 7.457128270249206, 7.570034236382085, 6.244394816677152, 6.189822296450088, 7.303036676014816, 7.975681952601558, 7.276108081021786, 7.544493590291046, 7.257909891643173, 7.590364360795133, 7.542028879992209, 6.353243785277327, 6.646229063899452, 6.382953016041334, 7.913064318601518, 5.979301046800668, 5.118126023838702, 5.878254543261011, 6.347134458200743, 7.078759315065123, 6.8079534843075855, 7.315925876201007, 6.410627136994708, 8.025214218637291, 6.706187562371499, 7.3488592515677125, 6.690912235988867, 5.886782736099739, 6.7449083079148355, 7.0506874412228715, 7.676776577873055, 7.2736143980050825, 7.4126997935472785, 7.842616326249082, 7.3324849580355735, 7.043068177064448, 7.968953585964006, 6.995812441589325, 6.308463539743264, 8.385246704081153, 8.025886487479198, 7.273745181085507, 6.90235026550135, 6.970688422150151, 6.584666913973666, 8.374047750964863, 7.2177812129310075, 7.645169346994768, 7.495707105540519, 7.801909702084772, 8.415796043794842, 7.848672852880015, 7.503319881834418, 7.846557018529333, 8.88256829026703, 9.14803842573486, 7.871522051644621, 7.861789957081441, 8.035599015720228, 7.53300475625877, 8.403346953583393, 7.498339084925541, 7.453848639975408, 7.628634523875364, 9.257363808944527, 8.360030806143891, 7.478326238803678, 7.950048593114191, 8.094576761763795, 8.063931368521247, 7.8452092477939885, 7.310986870473311, 7.818531011725335, 8.19348952974309, 7.471799967583178, 8.565261315862099, 7.0862801745386825, 6.9442823668248925, 8.025185674996303, 7.26744445909119, 7.978196753013459, 7.571962385859304, 7.737592653311715, 8.257787771386248, 7.343905286960295, 7.652503981827955, 7.283137035828236, 8.060725944249976, 8.355841512575974, 8.542466005887352, 7.181737608143602, 8.083595838358075, 7.355569742606556, 7.578532053278531, 7.272789974821001, 8.135961664188741], K Nearest Labels: [0, 0, 0]

Distances: [2.2482793054658092, 2.3328094283215584, 3.283227566895644, 4.146783840434603, 3.264923467495496, 4.020864665910553, 2.920836832765846, 4.094523434708375, 3.5845231369604327, 3.295899002200513, 3.46198465363913, 3.473306364380311, 2.5686831622392843, 2.325271772995486, 4.343944106789634, 2.414796175463182, 2.8005448093523366, 1.2255104571302595, 2.73246652142399, 2.8104896847599967, 2.8771362740241186, 1.478027280694555, 2.6311236090864223, 7.716547717326337, 5.6131478402963895, 5.58577172085702, 4.668098646183649, 4.702074029632467, 4.928540835918374, 3.5066328022833684, 5.5454125370768415, 5.378315685451836, 4.693998757324514, 6.365337872775932, 5.418624679924774, 4.628516356057247, 5.0563869607009515, 5.072520209513333, 4.325790984981322, 5.724696506494775, 5.590518274599238, 5.430435059092919, 5.513751189791391, 4.82491748031202, 5.584498765436534, 3.9967454096669486, 5.3209171723750694, 6.045072233962103, 5.123914720934251, 4.417666972402084, 5.300537925440079, 5.538154384660053, 5.248902642777367, 5.812383855671335, 5.721393306826422, 5.680284244127294, 6.034523914903896, 5.255403196360063, 4.8998912299093895, 5.9115342699566655, 5.52805181581551, 5.081328746477933, 4.514962615500014, 5.544847156993758, 5.149434581187033, 5.660911414792814, 4.834772307008399, 5.994583015566963, 5.026424033231454, 6.359583889766027, 5.352007273096368, 5.695855830979845, 5.814893283904126, 4.724975420860686, 7.0899515729880145, 5.376244070245506, 5.05822472662253, 5.254429428824871, 5.275588148918095, 6.425519634290409, 5.882923859751319, 5.156046953

84349, 6.6074737934943535, 5.9367231415298685, 4.878236620358521, 6.3824639
56503435, 5.985045517279595, 6.529853248103486, 6.549819190397837, 5.424517
013064513, 5.342250918485823, 6.236158928048687, 5.672567787185735, 5.95576
2036486324, 5.399317075925098, 5.604937150219391, 6.147608647977732, 5.6326
27802796107, 5.999897501372603, 6.080665026298082, 6.829189651381891, 7.050
041482739356, 6.1409250973009, 5.294478915715164, 5.61168667344062, 5.41763
8619696038, 5.802123670708374, 5.702150880550055, 5.633152426409268, 6.0238
34712395477, 7.667287055200184, 6.4628291074476465, 5.771266963827147, 6.03
7214826965445, 5.927345241570135, 6.1284285836801065, 5.65902419788643, 6.2
61624272465387, 6.25165846275563, 6.806726950180135, 6.2008175213450185, 6.
3244736673216035, 6.303374589464423, 5.883002769458821, 6.234411139865971,
4.864027907334186, 5.595122436183881, 5.569879724762146, 5.892760741605636
5, 6.538839082312775, 5.252858520525646, 5.823156032800964, 5.1185388821639
854, 5.687830988491877, 6.265722597369335, 6.652329179574109, 5.53967127160
281, 6.435498390938057, 5.438491611841283, 5.950070354811825, 5.52190371876
5568, 6.3018802348201035], K Nearest Labels: [0, 0, 0]
Distances: [2.7874362405394546, 2.9110061196611654, 3.9774613774007053, 3.8
627882540442244, 2.9923582638985793, 4.134043301097953, 3.1493321448398985,
3.9942354944557557, 3.6035353056846233, 3.0591967146197434, 3.2915667745770
31, 3.4555078493588613, 2.0200018739078622, 2.5087051774197926, 4.755476994
019545, 2.7794042834990376, 3.105894526276989, 1.5391841375286734, 2.773242
9626036894, 2.1387652022059154, 2.5679925692979393, 2.1477770890222083, 2.5
15598345941412, 8.409959459283494, 6.2501145685914, 6.007658898137949, 5.19
2382425585733, 5.196307575906479, 5.517346436300341, 3.817474259881779, 5.9
39382706479786, 6.057035210171207, 4.998255470368883, 6.3907424299052495,
5.427939307049787, 4.5630526292577365, 5.070595786881448, 4.50008459534792
4, 4.66370175383894, 6.393735335717675, 6.107617237183788, 5.7312792528893,
5.337415704541902, 4.680267374853222, 6.223510421887416, 4.458084047177453,
5.706135716609849, 5.794641364564885, 5.163442069417259, 4.899793108319832,
5.558428871327709, 5.914015080617222, 5.556867244113235, 6.106540921306898,
5.994526531164535, 5.8514357068054075, 6.027126044548121, 5.57542980609763
3, 5.5574747947245795, 5.2613521309782625, 5.420024129228517, 5.64632300999
2786, 4.834399731258492, 5.696775320094942, 5.791527950865103, 5.9981899865
21645, 4.883401696344464, 6.269450317015287, 5.376610152574101, 6.290234930
007777, 5.695547299102128, 5.569515501004026, 5.823216366804326, 4.75576703
9677017, 6.716587159424955, 5.507479446459412, 5.466413153966983, 5.6495192
73337876, 5.535911939238748, 7.004990828634289, 6.166291673132467, 5.091392
8237042985, 6.843531549549442, 6.063419226705189, 5.031143743902686, 6.0175
107305717095, 5.588168091542266, 6.2229369427319225, 6.344251878272372, 5.6
16045204935959, 5.170804490074518, 5.92916853475497, 5.4179468434648745, 5.
998212004419183, 5.353349496518064, 5.619255766978257, 6.001311979258938,
5.630055840647557, 6.171179233973314, 6.228887346348168, 6.865609887597188,
6.846893195117157, 6.1786658110712045, 5.252391616773481, 5.64233093873560
4, 5.580219743034388, 5.719518588287151, 5.676665111519022, 5.7857631071291
37, 5.69399099445516, 7.552759375991267, 6.436592107918125, 5.5614385926286
25, 5.777843864725712, 5.382354857785504, 5.920028284581271, 5.033812826343
268, 6.027234238557553, 6.1338993412843505, 6.49395683514443, 5.93848799242
8053, 6.056218890447343, 5.533135135644998, 5.470101605597442, 6.2488310768
02854, 4.8745912030093175, 5.528506968851695, 5.542438333684138, 5.82203657
6886786, 6.354758904032027, 5.010854566424793, 6.097004052053509, 4.6639941
65953636, 5.31914182828109, 6.461885479011217, 6.865018297054902, 5.3591229
17723611, 6.24240752935663, 5.06189992481369, 5.690328667499134, 5.19304296
36002895, 5.790210635489321], K Nearest Labels: [0, 0, 0]
Distances: [2.4558331669523765, 2.5396358451145367, 3.4917094665970416, 4.2
4313129777597, 2.715421208504854, 3.976236595948046, 3.2308835532605626, 3.
797619439442339, 3.2525578161090833, 3.24073297461599, 3.4466480907653074,
3.324731407654552, 2.015465290676528, 2.2574924878347753, 4.63666446185791
3, 2.947122833914144, 2.8299978698031634, 1.475354647808176, 2.792728413206
7087, 2.4497558635094507, 2.6149721357896247, 1.852527351429802, 2.60012784
1354408, 7.875439646443669, 5.45411514742063, 5.2188568935462625, 4.6167432
71067629, 4.505924695823742, 4.800992496199616, 3.151961149558191, 5.357475
776177165, 5.407220115651726, 4.334379320768995, 6.381602631554695, 5.14632
7455998238, 4.249096624116126, 4.670510813406628, 4.536846774742938, 4.3042
34899147132, 5.752607236089299, 5.538761353797892, 5.245317859281816, 5.163

241608281684, 4.226949965882061, 5.484050154588993, 3.978850304494797, 5.096966348367962, 5.345890523160144, 4.903130064827455, 4.344601349282692, 4.91948748650477, 5.347653163169402, 4.931363901621353, 5.5007990957938935, 5.377488337233999, 5.270059074913592, 5.438581778718583, 5.155749386019066, 4.977147889246942, 5.4084086572039665, 5.494831706689944, 4.982145893695707, 4.1166741396318685, 5.1396578113471545, 5.2252056190877, 5.5661444026607185, 4.432767973239492, 5.604887144305721, 4.862170697784442, 5.673968383993715, 5.145040841523726, 5.0692480901214765, 5.243672096320747, 4.387376305504526, 6.56341070955532, 4.997945052249449, 4.842598497853173, 4.85099116103755, 4.7989597854843264, 6.1956692488007485, 5.659709265286899, 4.59695638678335, 6.386361178159661, 5.6859651342505995, 4.524420115519822, 5.5503360904402195, 5.363574362544949, 6.082422652921777, 6.196515967609221, 4.9500379683566775, 4.50783250857189, 5.355513867536626, 4.865193052589819, 5.603222362272629, 5.204102970173849, 5.441076579426204, 5.778255626158038, 5.501744202828013, 5.548799068342446, 5.665047902750227, 6.577320235000806, 6.542791869375729, 5.767957644955936, 4.79263504368642, 5.312608464879431, 5.359680705875528, 5.444029194591841, 5.440260062587799, 5.6669307997794185, 5.579692534334652, 7.423984636432699, 6.179439565089928, 5.290868734039594, 5.636375713191471, 5.458030312055814, 5.78607369224517, 4.951985702091331, 5.708654984612335, 5.680300925385868, 6.274973212933695, 5.748469019581256, 5.67664121680996, 5.4185305385074, 5.1533856921241465, 5.780004253809289, 4.5999250165609125, 5.126932295872606, 5.357965643934524, 5.5626973440800604, 6.115198183224527, 4.88126907290081, 5.752038595890546, 4.627596516371092, 5.4342654618544435, 6.105520207194653, 6.394264946296697, 5.176901193679439, 6.15144941181012, 4.957663164048384, 5.642412872921058, 4.998679608626712, 5.649953710362506], K Nearest Labels: [0, 0, 0]

Distances: [4.092637243942099, 3.8669092156671327, 4.267112887611964, 4.894992434549459, 3.732022583202148, 4.770678601290301, 3.3809640561532435, 5.156171460210548, 4.134699324534094, 4.203155290939062, 3.6190184723398517, 3.4938189049769615, 3.0087012611463972, 1.9271495803156922, 4.126770639794725, 3.084825925076824, 2.4592886378827394, 2.313328589472626, 3.515771158674654, 3.407755692227592, 3.221424619698056, 2.547346453526546, 2.4789293213347996, 8.62429651256747, 7.02925397607142, 6.8001714479306745, 5.8335004935645935, 5.541835562471331, 6.7558058553800135, 4.881380465395944, 5.757775598325977, 6.5049737475236755, 6.07405921355821, 7.358919107674424, 6.799660928777012, 5.832432391902042, 6.421249261845319, 6.064030575416208, 5.417439022218452, 7.104610740679676, 6.4978723950652695, 7.0753648915129235, 6.363031003351444, 6.106060722324785, 6.84394870462287, 5.163393644123321, 6.832624133725026, 7.16407895090891, 6.409333067849822, 5.941581368047812, 6.802171446473547, 7.2144600007987565, 6.720880715611621, 7.076371038817335, 7.093676160031401, 7.188083151262382, 7.244832346740378, 6.565014275925418, 6.361921640736743, 6.621386415639698, 7.38150458992632, 6.107165504231374, 4.968188517338568, 6.38484458961234, 6.149438814469236, 6.9080710912295205, 6.33902618453366, 7.1177507790688885, 6.137154138008423, 7.642259524086361, 6.578219798381172, 6.965358865671127, 6.817716390085061, 5.900037840520953, 7.517324716628389, 6.688578872268521, 6.860485557457832, 6.731208904814744, 6.722368938745707, 7.633984175650395, 7.137464064488506, 6.636174851175326, 7.775966518907238, 7.100706967266277, 6.051674167467493, 7.364097072410748, 7.50347643094881, 7.385485727111682, 7.372454665973507, 6.599880068842907, 6.273072033260574, 7.609270939174315, 6.880340978871675, 7.260656006793481, 6.867935782493066, 7.126888433246311, 7.569841901967129, 7.1166827082815916, 7.091345066050658, 7.204299700805554, 8.252891443065797, 8.44428714503779, 7.335130275125097, 6.896831070502762, 7.268237365898362, 6.8148076830287705, 7.4833252757339865, 7.041934274749576, 6.880069493955066, 7.1771373309729105, 8.861915291623045, 7.687130298091595, 6.836121796074885, 7.203877290145411, 7.235033364762703, 7.3014539245623356, 7.030311679836582, 7.000101910264842, 7.284183434046303, 7.731785420501929, 7.159249530478423, 7.517437827602718, 6.645025395033429, 6.505016765622122, 7.38325299969291, 6.431311141684358, 7.173253262558639, 7.009747162060777, 6.986711816907093, 7.726279487493834, 6.478472298575096, 6.967698146702431, 6.43039123913262, 7.132321310586742, 7.7710479028658686, 7.812702836990767, 6.552856967807907, 7.517112669404329, 6.660736832986283, 6.9260153556489925, 6.564744085830855, 7.367576763570939], K Nearest Labels: [0, 0, 0]

Distances: [2.550687928177771, 2.9820578119696344, 3.305147556311282, 1.819

8732262208066, 2.570483198008627, 3.072664597727825, 2.0771153781685774, 2.40793420533238, 2.655836584046117, 2.30128418033471, 2.4582171749106645, 2.69630893992048, 2.889272884461447, 3.3089666969299896, 4.089503614687983, 3.0667854825924197, 3.1143079740470463, 3.0306920464356333, 1.9758648428657566, 2.7638514144766892, 2.278463863153248, 2.6277318126229194, 2.835684510833729, 7.210115954002707, 6.299947373195408, 5.730724939060777, 4.660403031240925, 4.321428240090768, 5.2562927143309075, 3.8431799417216683, 4.963959785930831, 5.028414724051323, 5.198555814812891, 5.61359040580886, 5.331326600886976, 4.629316894970728, 4.6539856917510285, 5.400549053848488, 3.937774325883865, 5.36821630631425, 5.118618021427232, 4.723125796454941, 5.005328247804463, 4.181815940992991, 5.287414354961773, 3.568827381414423, 5.763044970379243, 5.81713536371266, 4.18228145022688, 3.97904574549456, 5.524079937294029, 5.879710614334551, 5.260996189633482, 5.817818061665195, 5.620268222357815, 5.696755125997022, 6.079495663471345, 3.991730773286245, 3.998891772216495, 5.554848679816927, 4.801567862911131, 4.530419821804196, 4.184890894746162, 5.12425735265772, 4.657978807627012, 5.080383485888165, 3.7420095857257833, 5.38480617848726, 4.478612217376673, 5.927176165348595, 4.791525396359469, 5.4577828202669325, 4.934076111712223, 4.238693724569643, 5.706618091957657, 4.271697789384823, 5.515390983077877, 5.427279124152275, 5.026836177489505, 6.846231071452388, 5.142475161163264, 4.451850710761891, 5.656829062313352, 4.8485410694743, 3.919267661586943, 6.491498200842338, 5.158173879090878, 4.80025475639816, 4.92267372938541, 4.558647317928183, 4.589949767049634, 6.465128842448511, 5.128795501740975, 5.1642932240400645, 4.852728885296925, 4.924529799260734, 5.814260500097209, 4.88952966743795, 6.256967458981864, 6.275541497160705, 6.593473930835536, 6.863272661551651, 5.988675668369258, 5.454697179516061, 5.524254551897476, 5.115477949942942, 5.796589989336801, 5.107076706372909, 4.99227436271284, 5.460100066447647, 6.87006363279424, 6.043194184561092, 5.574032932581444, 5.507555267182212, 5.391566267240016, 5.6585188476815285, 5.388820126002023, 6.2671123821021775, 6.284677923527194, 6.583458362368702, 5.7326534882374265, 6.8452317572477535, 6.818888875191251, 6.31030695510257, 5.924385401751103, 5.006169514254687, 5.658485481153988, 4.97514932446312, 5.912373491870345, 6.244813298103955, 5.5039724430226595, 5.781103640455152, 5.339537627459941, 5.240009022758727, 5.724762816060243, 6.602196749696351, 5.596281851916995, 6.0276271322241195, 5.274173692667604, 5.658918636356604, 5.652930686601154, 6.350743944771173], K Nearest Labels: [0, 0, 0]
Distances: [3.379272501479045, 3.729987629448841, 3.507703338420525, 2.6415754018331485, 1.5296702634714365, 4.112850415086216, 2.7552613517614066, 3.5702084977747988, 2.304785170150264, 3.4452819404810544, 2.7308823354571747, 2.231129139425425, 2.6851247508421383, 2.7330736140267926, 3.857124789757698, 3.2593017670891147, 2.7062124580876032, 3.1768319873828457, 1.904527172277807, 2.4847145126584866, 1.3277528209367664, 3.3052388136664073, 2.8886396529883354, 7.379455925365253, 6.5690158209530765, 5.958783932971139, 4.693450573375086, 4.165341540608005, 5.580630747555231, 4.063958263225447, 4.375076942462094, 5.171720287769004, 5.4021555154707155, 4.839928471788594, 5.882804689618242, 4.688280101407667, 5.0957693534197235, 4.948486113272918, 4.152568463939831, 5.733194677015494, 4.961740013829465, 5.463448092745152, 4.3410145401431395, 4.592362298319192, 5.163723271074413, 3.9015781542354446, 6.13547810636846, 6.503024885021522, 4.673053782700698, 3.9657060137412246, 5.778470821375398, 6.289017193575896, 5.929843013649694, 6.1801004193849, 6.098640498382174, 6.082526460605803, 6.406604357497589, 4.502607274141418, 4.52863014292362, 4.659794121149695, 5.64159792583159, 4.550175645296888, 4.004100300355526, 5.088926269874494, 4.677419006975658, 5.33859328226159, 4.51054569983528, 5.632464382762432, 4.624181200499574, 6.223083324302632, 5.17504007421746, 5.872330902390574, 4.7888055299671635, 4.631495691385511, 5.701779320820039, 4.941807569474306, 6.312420231805214, 5.76428593347312, 5.502867596773917, 6.696409997267936, 5.404024181592885, 4.496562525462064, 6.574243489003473, 5.480731975302533, 4.579174109261784, 6.704369142170236, 6.069138004509303, 5.829817098956096, 5.708420128103368, 5.0068243733433375, 4.862388024810117, 6.904868307485753, 5.351554970733339, 6.340033083902637, 5.548303406057301, 6.107837156304912, 6.768352578419471, 6.161279421575747, 6.656718264821314, 6.838375096117486, 7.879029463824448, 7.929175153034543, 6.724757353888779, 6.205481567913154, 6.499864576943071, 6.090708895100422, 6.753132082984944, 6.211172808339841, 6.084743413205256,

6.322207312013954, 8.092680730405394, 7.280388504257612, 6.426037727411312
5, 6.4884439120919035, 6.312455706893106, 6.5213211561248565, 6.04896091154
93606, 6.753282132984198, 6.5423005075486005, 7.481577997860727, 6.60960088
6635005, 7.540175779074983, 6.735873689775334, 6.5264245466883555, 6.921544
9205866655, 5.8306425111410745, 6.4070086548138345, 6.062257499691738, 6.61
321196297492, 7.091216448444187, 6.252801242491787, 6.726505801469224, 6.05
37493958951, 6.537156270654598, 6.782923997444256, 7.365994655124698, 6.292
32499280548, 7.217441479694882, 6.222516165376954, 6.445885232055818, 6.098
4829120304935, 7.170443989539404], K Nearest Labels: [0, 0, 0]

Distances: [2.9613024425291394, 2.8872238547878837, 3.6187244719526372, 3.2
748833211896393, 3.3278653298968304, 2.688579833674824, 3.317904422293578,
2.0759719589493963, 3.119082730655238, 2.7455845356927076, 3.02733263423512
74, 3.6186855726456773, 3.0758805064600603, 4.001794820506739, 4.4939121043
335115, 3.1285802430432397, 4.294605930174628, 3.581463731511481, 3.3107082
457042054, 3.151197449718005, 3.5702813285517734, 3.038024007062351, 3.9424
694293276983, 7.421714872791113, 6.001948756615818, 5.614054940377265, 4.75
3365509913717, 4.139615695355471, 4.579332436411278, 3.2660906779855297, 5.
033695622595543, 4.482405170198084, 5.337720361920006, 5.92314928671296, 4.
695574690052392, 3.9374838270430694, 4.018434185726403, 5.172965783598835,
3.7490294663463017, 4.9119113498798015, 5.1084911992984985, 4.0757752132540
98, 5.208616197298431, 2.774612727286326, 4.681811417705304, 2.865635027826
823, 4.491308937663774, 4.601018914483576, 3.4934725748133064, 3.5903549482
674966, 4.387955250491679, 4.410650453963036, 3.9258127126753153, 4.5377833
85006902, 4.5067078269007705, 4.4069191966388725, 5.066094970081489, 2.9370
46603601282, 3.5897035372725954, 5.778414836443862, 4.404470881457716, 4.14
8095622066638, 4.209798068844434, 4.025571201525968, 4.358690020955586, 4.5
4692177554591, 2.801550753973195, 4.691946844556819, 3.67024348758806, 4.71
9002788438582, 3.7980623997267493, 4.374360171455551, 4.280768773864117, 3.
227536149242295, 5.054730972154984, 3.5746535198372777, 4.397120735721223,
4.509951041943811, 4.041334017997715, 5.636319475385061, 4.22755814664217,
3.7023668957095675, 5.105290061642167, 3.6337154935503957, 2.94778950520634
5, 5.795767659018681, 3.5015457385417115, 3.6765647032873123, 3.55049581184
95433, 3.6631375447635404, 3.9374406655407777, 4.9990936871059946, 3.997122
1458111192, 3.6802209917466833, 5.168824874134031, 4.6231499213450995, 5.28
5082408766099, 4.553115579245457, 5.701091542620148, 5.708153653634487, 5.5
22416670573303, 5.545328618661844, 5.2778186417428925, 4.509483937906197,
4.625164832730619, 4.58256732046979, 4.930251081198483, 4.214405624599848,
4.649690469735421, 4.849341540866196, 6.207087011260816, 5.151640409598634,
4.993702378730767, 5.2396358526375355, 5.305834373380606, 5.51328614039431
9, 5.072986442987011, 5.775459174281701, 5.900513252687681, 5.6493397971469
48, 5.143649805742314, 5.7961141618277345, 6.428274187930356, 5.77500509947
1128, 5.123121875999468, 4.530134866778038, 4.7369178657612085, 4.538234304
543613, 5.442436421005659, 5.333595141762321, 4.955397484077523, 5.20813341
3468337, 4.697017470837447, 4.622371142416952, 5.056828159490149, 6.1343663
66847555, 5.301242686689287, 5.284611496629449, 4.532526889672525, 5.450827
389637339, 5.443456927958518, 5.617801647968205], K Nearest Labels: [0, 0,
0]

Distances: [2.8180712202594553, 2.53178383916427, 2.408392016992482, 3.5561
8948330508, 2.5990773808100616, 2.854546238277287, 2.255644526016631, 3.049
226821261836, 2.2157972663348695, 2.921170348729297, 2.4655402197778726, 2.
3017324741040586, 2.576457983668688, 2.9589651833299353, 3.756136378087654
7, 2.169415834079196, 3.1356331968392257, 2.8864001315785695, 2.15274358759
67913, 2.9115267120709203, 2.4418349874155543, 2.5411119062787564, 3.077891
7163251363, 6.715534797654957, 5.788502234264103, 5.5291571989535235, 3.851
7591493228447, 3.805498786222917, 4.905374725871221, 3.524936996101866, 3.9
94140148907134, 3.915426426279609, 4.845744231835683, 5.63378688846143, 5.0
56267031369638, 4.015500193227567, 4.062983726801378, 5.283141619137912, 3.
517634985668394, 5.053412477195101, 4.398585291621748, 4.792974830364187,
4.998657567649376, 3.9830669479635445, 4.2843747011517905, 2.55673164126886
1, 4.7460549159385055, 5.666327531534693, 3.9996427442980207, 3.10196729956
03402, 4.795032380823384, 5.051342206015797, 4.578458779238854, 4.596088187
420146, 4.94535845105401, 5.0108856655401945, 5.35480917529094, 3.608469371
517241, 3.9873888398736725, 5.842393597896161, 5.563134106457876, 3.7412204
590134475, 3.6180079042228788, 4.571500137519617, 3.8700507379109608, 4.239

184514726744, 3.584929291167688, 4.768902758230241, 3.2202356536032353, 5.2
27931334042908, 3.86216918772685, 4.822559218286298, 4.2243453268091455, 3.
8540802537677936, 5.924011636659689, 4.011145562222288, 5.401393385694298,
4.882855214703385, 4.329289474691274, 5.823868182998915, 4.230308938939558,
3.9848351224333975, 5.5965408542321615, 4.333746467671878, 3.74730620120976
93, 6.7072563128814116, 5.3423633123754, 5.157194345193254, 5.0810713811212
21, 3.942253955700889, 4.220571102721812, 6.09126599436038, 4.5166568886333
33, 5.104104521998312, 5.488080653681745, 5.628541911807237, 6.175855976639
649, 5.7376321039942715, 5.901912300922941, 6.194972220095864, 6.9037221515
57248, 7.219309147413784, 5.918391863198951, 5.488830981114711, 5.548100324
192354, 5.000904615130022, 5.886479120962771, 5.408257636561284, 5.75406357
0901082, 5.665715121695708, 7.276112720123075, 6.508153206370773, 5.9653612
69221549, 6.488764315511666, 6.540735058833971, 6.646329760994659, 6.224978
605834481, 6.630198680694372, 6.252955035731508, 6.9824193226945654, 6.2751
70736435767, 6.869230354618527, 7.061156955028299, 6.510065046766281, 6.349
199536025423, 5.299805576058476, 5.784722232829783, 5.492183578638902, 6.12
4727182955749, 6.392576374270857, 6.230415133554321, 6.139913891999835, 5.7
63923621788351, 6.35747787217557, 6.025522013208901, 6.802716167170156, 5.9
084044682767285, 6.640249714506189, 5.814900054433319, 6.530301392670599,
6.151983551581306, 6.8695656382397505], K Nearest Labels: [0, 0, 0]
Distances: [2.3512025668556213, 1.6762463621858787, 2.2427323689395138, 4.3
60126833406467, 3.2683319654469143, 2.9021201474269485, 2.762855368207317,
3.112077332621424, 2.594949870375002, 3.349816270832633, 3.492506075039416
6, 3.099316548231304, 2.9976434787994126, 3.5386333700052135, 4.12414477728
74835, 2.4336045746587667, 3.78863394183053, 3.0354202816186047, 2.67727650
31452987, 3.120230117644079, 3.2922611001207764, 2.3491107872177994, 3.3994
11552718827, 6.374693691019674, 5.062499475657115, 4.942809952877511, 3.624
5529451807506, 3.444918502957688, 4.055719635234027, 2.74937260460716, 4.27
88129112382105, 3.289187297105693, 4.341385428774008, 5.756561540194933, 4.
212530889477977, 3.746652924953817, 3.45105293108186, 5.201043739806538, 2.
7320015987957795, 4.35301546791056, 4.197239717274078, 4.0617981706752575,
5.025988037093466, 3.752683156780701, 3.7113191055787578, 1.983281946359138
7, 3.6229916017874095, 5.169711310441547, 3.122103680320633, 2.521329421615
4423, 3.915315818313366, 3.938376855867541, 3.4345347349561726, 3.608394899
7718855, 4.094447212362072, 4.031592725346935, 4.648889131990463, 3.2001121
065722247, 3.193945389660609, 6.062111195514154, 4.708293535880603, 3.34997
37885034393, 3.3974411886025795, 4.505856574970521, 3.584850168634585, 3.66
5225150104891, 2.814736722502504, 4.081079257282407, 2.703462735307115, 4.7
29245504040872, 3.149011751032267, 4.095770225683753, 3.8511819582981612,
3.0178702136719835, 5.926849466489925, 3.373996450016649, 4.44578271169119
9, 3.7095441511281297, 3.3282530192852207, 5.1562572087422, 3.4622922046428
983, 3.440493972115327, 5.0933263337258685, 3.8510063865770805, 2.954455722
4045067, 6.245841298353873, 4.7664829308433605, 5.15541996046446, 4.8317084
436284885, 3.2873449317514383, 3.684475213443218, 5.175832579463205, 3.8409
306926341142, 4.303316032909221, 4.8356511892042855, 4.861092875038706, 5.2
966278353945855, 4.965232948552912, 5.117908690377343, 5.520056144098425,
6.044456950221905, 6.53260774320053, 5.4317632988248965, 4.653077165281524,
4.680008156545432, 4.266473754756269, 5.129572397841882, 5.018609584785833,
5.1300381941457855, 5.155879492133766, 6.803038016081836, 5.80288780956958,
5.358164915543461, 5.9753177378492115, 6.021923238279573, 5.99278536314826
3, 5.498290127911261, 6.255107186645334, 5.605624173060807, 6.5397191754220
67, 5.907634758767661, 6.016595964984274, 6.843479279043952, 6.016276024869
131, 5.5811500392814155, 4.756412490392186, 5.07352830655143, 4.85463158396
4869, 5.57312918251429, 5.934331668776342, 5.715540346432612, 5.43022674813
1709, 5.113560292769552, 5.7468248869888345, 5.136858210616959, 6.045853992
044346, 5.444548268579547, 6.258176557785947, 5.24332308487958, 6.189903536
235778, 5.703780207438631, 6.41529954693958], K Nearest Labels: [0, 1, 0]
Distances: [2.555292681780781, 2.2740143989965365, 2.986032373799025, 4.172
391817105664, 3.1687547323757146, 3.104866899120333, 2.8634905197074945, 3.
1125914379221356, 2.8865809508163127, 3.159590638248083, 3.253355795329538
7, 3.205750411470178, 2.7580449987044644, 3.6322214402239563, 4.60280754009
9056, 2.410083209664118, 3.9496364817535112, 3.1598771363717297, 2.97184672
22795115, 2.987453144426125, 3.207639380025622, 2.685877947857409, 3.589417
1676076394, 7.142606934150984, 5.569700556130595, 5.408658861274602, 3.9187

156329712405, 3.58074832773375, 4.221621043796336, 2.986949042133743, 4.507829266025375, 3.7264662116189036, 4.6774196434909205, 6.069497274567794, 4.692162985136872, 2.8169869465574364, 3.2483570989505965, 4.673924565269877, 3.222593488984432, 4.991614021584678, 4.6008871241343705, 4.503323980069212, 5.3965807158014485, 3.2506403334721115, 3.9627071327236263, 2.3023358903115394, 3.6687425763739765, 5.054453228562863, 3.4229281955115582, 2.749020010987698, 3.975972643064822, 3.851670601097685, 3.7568573768003546, 3.7099053417447236, 4.373333050347225, 4.153886932710638, 4.747666998877028, 3.217503570764022, 3.6235891708634362, 6.072621442994678, 4.924322744318391, 3.762642586859364, 3.663495229284202, 4.336328928356214, 4.186988098530185, 4.109513803713934, 2.7914232360018505, 4.50547904830959, 3.0000139394426952, 4.5960793557616, 3.473688245546656, 4.087032639539911, 4.0247392474715245, 3.1010532506117343, 6.030755902434212, 3.430652395779073, 4.554711793564276, 4.031290916868127, 3.3324127308568885, 5.26197692060035, 3.8351222652139594, 3.3401399568767087, 5.466994137886664, 4.117947663232577, 3.2552288839995716, 5.753729535971722, 4.235929821208512, 4.863049052550465, 4.621160383186817, 3.395623078057518, 3.616216498076877, 4.866916030336218, 3.5906693005349535, 4.410200190184995, 5.277656275412614, 5.157714831909503, 5.49345492021096, 5.251957482168093, 5.572418745643678, 5.9256376740072065, 6.303279695639303, 6.436275651522388, 5.57581872066766, 4.6223348435149365, 4.778876559589976, 4.582285773186332, 4.995364017973818, 4.969909625061884, 5.668567013276984, 5.3864459811910645, 6.875866200675173, 5.967907785615926, 5.499112124675524, 6.1302740359232155, 5.970846800639494, 6.195473328058508, 5.374213181739128, 6.441227478902386, 5.9924994151867, 6.589905365179426, 5.910268711237496, 6.071414464169936, 6.529117821201455, 5.951059120463133, 5.833521385408889, 4.807201237870935, 5.102833849657546, 5.186430816094474, 5.679262528657092, 5.886011523555088, 5.6964216692754155, 5.808316661224582, 5.0206302676781975, 5.595011740942896, 5.5824475283909125, 6.407884946269604, 5.50744565739598, 6.284730273555629, 5.257560812408279, 6.415657847428341, 5.941497508270779, 6.165142945134152], K Nearest Labels: [0, 1, 0]

Distances: [3.73025606449334, 4.317141188323323, 5.728994024392625, 5.620790152671982, 4.837836827599291, 5.737258640657213, 5.345445821357168, 5.079566412603564, 5.34160819493071, 4.840023750474981, 5.595809983426179, 5.941567562923237, 4.561494158031314, 5.427567552452278, 7.13687551241068, 4.873160966427344, 5.633550598469925, 4.028677050893948, 5.227548052037514, 4.347560793846541, 5.169317423862872, 4.2838644550781755, 5.329682524383373, 9.655480359638261, 6.364211663672736, 6.688500093892077, 6.44715413782108, 5.986190127174849, 4.898677514210819, 4.2043190339659855, 7.528032978148047, 6.673043462673569, 5.5276881363058745, 7.248259776114872, 5.802582546077366, 4.461720661323999, 5.41878554007138, 3.9075973076204993, 5.275173096029618, 6.882046984439793, 7.4091512480511605, 5.545644447551902, 6.344101514961872, 4.0830323013543675, 6.355472102341282, 5.320602289593127, 4.9605741354770565, 5.697856233191328, 5.123524220656354, 5.182666855765253, 5.0812477462944186, 4.4857761461041115, 4.892013408598174, 5.619065105504409, 5.747117558706918, 5.1519678446146315, 5.9037802676162965, 5.686403819310963, 5.712063984014895, 5.772248377623663, 4.809183537570434, 6.412498685725903, 6.003368761391925, 5.747180101049377, 6.78175219559479, 6.642253107561502, 4.450133874771253, 6.543013194215839, 5.853839623753023, 5.456537333693035, 5.931921205483835, 5.407718324065644, 6.093480740740322, 4.243432054903228, 7.285495106811776, 5.664350059114326, 4.0010321802779725, 4.985960370417108, 4.761997225711593, 6.206787270657457, 6.196772846797005, 4.748856311323767, 7.4462137363598275, 6.195784189496191, 4.793280384491715, 3.8604039414508793, 3.9320902614728386, 6.5318620998425, 6.2108359054227575, 5.514612961240389, 5.2582269339645205, 3.9900061247385707, 4.862860996438425, 5.657102444736051, 6.220880579151882, 6.206437491573479, 6.289064241023009, 6.243898979926192, 6.596645111810749, 6.689802540177556, 6.61418019929677, 6.008327110735712, 6.659363439065203, 4.610463374681169, 5.1469142953809826, 6.2070448184798686, 5.175854297072502, 6.020574774160037, 6.711408882276852, 6.3396443508753455, 8.097422245187348, 6.6710128070146295, 6.275211645741151, 6.553782378751836, 5.944215300618644, 6.653910874608278, 5.018736115591826, 6.92556591583335, 6.748332172969196, 6.871252213199265, 6.772987851762661, 5.513653991760539, 6.297903360107533, 6.1313392859730165, 6.4761536138818165, 5.226684541845464, 5.000056234133189, 6.095450190425212, 6.7317171020507

56, 6.716613325389548, 5.5996813772984595, 6.964246590853203, 5.020769027420942, 5.368685305837641, 6.627522447487831, 7.438927182573666, 6.440029699233509, 6.7972957137839956, 5.571615448184986, 6.765882057393647, 6.011251959647799, 5.932641686687873], K Nearest Labels: [0, 1, 1]
Distances: [2.0846341381347204, 1.8580078623307734, 2.691887921459447, 4.084763623814895, 2.996606809514128, 2.9502553207635276, 2.0293468984757537, 3.0791375466645343, 2.6844566532583003, 2.9102229231464016, 3.019890498982981, 2.7880294635738303, 2.5978976081633847, 2.9929545065345464, 4.06755813900792, 2.4751021350290365, 2.802659433300406, 2.220291662021257, 2.617914983300356, 3.1196331893321374, 2.877304037630355, 1.3867639646823557, 2.555193452154078, 6.904890055869363, 5.275195163105329, 5.083676425797466, 4.246900772275287, 4.109048877004441, 4.908722874589137, 3.165193224571318, 4.629739024175637, 4.40854273292243, 4.251071112238785, 6.783981945053019, 4.844453637012396, 4.454218572801866, 4.2686344623672765, 5.869764845729357, 3.6394822549675543, 5.258235292228397, 4.97201250342337, 4.775238273308694, 5.537510130955822, 4.332055383461346, 4.931796202223024, 3.0895812163870984, 4.662238181557675, 5.195868371488951, 3.904241381084858, 3.781263964945136, 4.884622969480494, 5.153538924324562, 4.143632071634437, 4.544815696951404, 4.682404577961747, 4.843717792756966, 5.010863686674778, 4.277950027502179, 4.275534471109845, 6.51043420124801, 5.624600565549523, 4.1944844372782, 3.6151284844482308, 5.018431823465969, 4.644117311453029, 4.710620184516129, 3.5417048304981003, 4.820689686641823, 3.8499310336528407, 5.185753113249721, 4.106003671629116, 4.630739582723627, 4.572831159858703, 3.679857883425368, 6.323637569920411, 4.159090003494044, 4.815326717899216, 4.433829908153269, 4.004561407074798, 6.16745859600686, 4.666628734458904, 4.542592118100506, 5.301060069557126, 4.670626745230591, 3.5483091687903188, 6.323997675399403, 5.321754447591109, 5.384669865291109, 5.313596456505693, 3.9907444451007232, 3.870696584612337, 5.598177824420832, 4.549709289863842, 4.6805553583279815, 5.184827237921319, 5.17976134365824, 5.6530903113496125, 5.340156418379696, 5.0190916263142755, 5.4023982635370595, 6.104295746160119, 6.587230211560901, 5.401117569234722, 4.837837582015558, 4.840164167440754, 4.507812625119197, 5.339125441550038, 5.069258498266709, 5.35306798226075, 5.2356748471307295, 6.825577131248603, 5.672386063762575, 5.121610869257621, 5.9169380341412605, 6.0786566641890625, 6.019505173329533, 5.588203034652997, 5.822196748706534, 5.6416523395109355, 6.260631683589338, 5.578247158524798, 5.925701949179569, 6.290414916149122, 5.525090160896263, 5.400424802216838, 4.747443763427606, 5.212983228217256, 4.964923075489703, 5.541450671189745, 5.993041025773822, 5.615483834324991, 5.421155931665506, 5.112277639607826, 5.752118189754009, 5.468018450240823, 6.00291237692436, 5.102182296046264, 5.962208802128374, 5.142667507785249, 5.9912697141232005, 5.45446027092288, 6.017736757131818], K Nearest Labels: [0, 0, 0]
Distances: [3.243141832823842, 1.8172803283227998, 1.3653111017349049, 4.7329390052316285, 3.6478010312909026, 2.3042060711601526, 3.3188853585330795, 3.203567508510411, 2.6185400386734488, 3.3424727502576483, 3.437613261102795, 2.8953364714106917, 2.9024314426094295, 3.325543332987279, 3.7560828285957366, 2.992171758334647, 3.8865870708440515, 3.2233957342437405, 2.4798726260290587, 3.403284992758505, 3.326294674123676, 2.743313812149912, 3.4000623337717344, 5.29818629481603, 4.714972251419049, 4.317066526052713, 2.872977344653212, 3.977334119939921, 4.612261993591097, 3.374351380454268, 4.033629883581369, 3.466689315899476, 3.925912934313589, 5.641654127105253, 3.6643466626048, 4.7958626042445065, 3.5673167918297652, 5.984103548287018, 3.331071370061211, 4.053339872905124, 3.6139502677801607, 4.124815917209297, 4.70843910906168, 4.478953918803174, 4.1871814417478355, 2.4290050944617576, 4.301122958909556, 4.980545124640903, 4.137169418341286, 3.195159584722522, 4.2007547344318095, 4.999766245162225, 3.9585538207109723, 4.147058757281352, 4.2164303337148406, 4.500475241513072, 4.496358019095206, 3.9658220672431193, 3.992373452189983, 6.156522374879262, 5.2717971371675425, 3.4194532346339717, 3.5950927811431597, 4.982758060997231, 3.1344877365494863, 3.2834763151328192, 3.7838363697980943, 3.847607359026174, 2.911147772968414, 5.150533541310002, 3.4422452626797035, 4.135278264468047, 3.993982483000441, 4.3469400379045435, 5.930620064635058, 3.663907492181565, 5.274382005359515, 4.375188532421413, 4.274635103648169, 5.776215303285052, 3.750992887658006, 3.949313752873711, 4.517990660792922, 3.861622935281028, 3.9440688468480043, 7.645000386194323, 5.6608294860762225, 5.27900097572344, 5.65143522

0247825, 3.8604378376994037, 4.154751018472433, 5.934146697840454, 4.366366
072525647, 4.488081602735172, 4.300459665063559, 4.476510559279504, 4.94702
0812058025, 4.53512780105135, 4.574602163830839, 4.911505913622784, 5.72191
2037620304, 6.560201259193781, 4.830856467532245, 4.815486001215042, 4.8531
97372425297, 3.8713548197796, 5.24195402283933, 4.696454614433397, 4.606008
976330153, 4.344358108109697, 6.17180813624067, 5.545000704731679, 4.894753
481434664, 5.553524103023592, 5.881872358221639, 5.814390678700679, 5.63583
9590700638, 5.725183198222325, 4.976199436898235, 6.03616930350091, 5.48979
58093067105, 5.935407273533249, 6.881884541662001, 6.002952703389552, 5.301
061375055905, 4.481048358466833, 5.129278191263395, 4.354933768723997, 5.04
3685594606491, 5.461883177095566, 5.5458975624966556, 4.960910179792296, 5.
060008393067512, 5.930620591673995, 4.840054662988803, 5.626447583096526,
4.998348226966375, 5.813641466948004, 4.854716355976226, 5.574599061637091,
5.2012672102022615, 6.309366219905988], K Nearest Labels: [0, 0, 0]
Distances: [2.0605107176439748, 2.5370284964824013, 3.5544723291195797, 3.9
38551234226598, 2.910938657264213, 3.9124396405387443, 2.9798347484703336,
3.6013642356115976, 3.4010309310179303, 3.1801010369963905, 3.1741699155360
34, 3.541644524013345, 2.4514489172434155, 3.209490137009592, 4.88941790900
9965, 2.5089268103989792, 3.2876686017950174, 2.1342091251327697, 3.2078558
859179873, 2.8763024346352277, 2.9582722061183784, 2.1748062032342403, 3.29
6738196889753, 7.965779250878889, 5.604216456946737, 5.6809424258079915, 4.
595860605288312, 4.167463742741538, 4.378693226256491, 3.0547811990915505,
5.245250175146275, 5.036628203712282, 4.597595747328403, 6.460231270492179,
5.409750635595069, 3.1985362275824203, 4.372296633440304, 4.40804951140188
8, 4.068981632719219, 5.726569675324283, 5.508084503991567, 5.1133045068642
97, 5.545469984976873, 3.498977434404362, 4.906777731306378, 3.497759949891
5874, 4.480046813840402, 5.407486414628653, 4.424413863833556, 3.6940999469
940676, 4.584593222330019, 4.5973244185159885, 4.567812310972815, 4.8758771
85013401, 5.058395104132627, 4.931103436337112, 5.367593143457488, 4.292581
30139779, 4.436607026424208, 5.756073321030881, 5.3543029459103035, 4.60712
3312478759, 4.16459351292243, 4.5033295574069445, 5.113728292555352, 5.3292
71555506221, 3.814879515533999, 5.469753188251771, 4.386819843272608, 5.271
082987233347, 4.721694358221738, 4.943168854022756, 5.007508159441775, 3.74
99487002528302, 6.574801583530839, 4.55311660919632, 4.453613778974319, 4.5
85956879854615, 4.224222137846434, 5.6083172890955515, 5.216768221483983,
4.223075200016767, 6.324972527311924, 5.225140408312777, 4.117733763495292,
5.360134988316671, 4.6811481888263105, 5.6309206800408536, 5.51893594651913
9, 4.505497973775389, 4.407801456193669, 5.115252366042422, 4.5130651219870
09, 5.254177992932895, 5.7056160189927745, 5.7427497779023176, 6.1669182979
25148, 5.815823152380481, 5.920647035340859, 6.194540685197239, 6.677678374
020911, 6.550736190424918, 5.9514828660070656, 4.787614147799706, 5.1804670
49092934, 5.404746520346087, 5.2837876798777845, 5.295887637732474, 6.19516
6524622767, 5.94599124850842, 7.499456582229324, 6.4109695041569355, 5.8241
503710565095, 6.3619031916947195, 6.122837490953991, 6.524827852167466, 5.4
80252594666841, 6.460195579326092, 6.39506261055175, 6.730047903912786, 6.1
3620072795483, 6.167815235081204, 6.177598720540936, 5.839275346533154, 6.1
70006582598012, 4.795035332897572, 5.223574518202401, 5.650757217380354, 6.
086668039167159, 6.294333680696329, 5.5579513605824635, 6.247259810683544,
5.1415426727229026, 5.683956184957119, 6.275092652374382, 6.88674414968031
4, 5.712340949549118, 6.436843024459959, 5.435585140571202, 6.4727997633057
85, 5.903598982537085, 6.051049451098003], K Nearest Labels: [0, 0, 0]
Distances: [3.233707352692882, 2.6392277903873045, 2.283712875168559, 3.693
610799884118, 2.495945731091821, 2.715298566181633, 2.4606616068930958, 3.0
47260256604976, 1.9871344806786844, 3.135187264298385, 2.2845579053673277,
1.7317813508669038, 2.118388075906825, 2.6905092280590432, 3.08298921809862
14, 2.1755108146000603, 3.129667709203498, 3.0906879309410904, 2.0664176358
466104, 2.7456075973975365, 2.1726573116636283, 2.773273947989514, 2.928320
176998965, 6.270742847860218, 5.797521950347684, 5.2551628079637505, 3.6052
918575815935, 3.7356749479422526, 5.185033057268435, 3.5339821084221072, 3.
388078977214484, 3.843609419281855, 4.827851890591355, 5.551353277603011,
4.8428379531917845, 4.24587704683603, 3.989677412264311, 5.812940298971447,
3.6315937674503003, 4.932165275509161, 3.88712483224586, 4.953550331756121,
4.706261376687947, 4.310529825267254, 4.3750935714499954, 2.51696107074141,
4.925488175421961, 5.458784502984787, 3.9929523613834723, 3.247124221091338

5, 4.856928400832943, 5.4702250835594874, 4.749330326611788, 4.688213169980745, 4.8461156120869, 5.002822924508711, 5.120048485234098, 3.697550934614058, 4.207572266410854, 5.873293644284082, 5.798315582886582, 3.5575936217718045, 3.503466619876333, 4.588488721469137, 3.783414104236589, 3.9765535268225056, 3.9042526654459673, 4.556135782935216, 3.1965138017624057, 5.36598945875674, 3.7786489329312887, 4.666868499401523, 3.9599062413813515, 4.1538112638208355, 5.61510620952721, 4.0549267380064276, 5.867258997705398, 5.002656955813085, 4.637688701022584, 6.053275454753811, 4.209058937406635, 4.164800244241252, 5.283366623262883, 4.258451872095348, 4.06093479913301, 7.419636024401228, 5.73994424091354, 5.112410338408954, 5.13371347112081, 4.10738590804635, 4.175163777330307, 6.349555211346189, 4.553465265865534, 5.15822771864775, 5.271079980366713, 5.423823592047736, 5.94940437123662, 5.55948901876518, 5.443115812137907, 5.835700128646173, 6.80530295292285, 7.215001586694896, 5.557453025051717, 5.504166197581055, 5.550972672869538, 4.739038013958198, 5.913089823683562, 5.2191557661910695, 5.468066788455941, 5.281487627499773, 6.900586236965533, 6.254802764087633, 5.491192346393878, 6.176818048822128, 6.335340890508987, 6.304750900306201, 6.006777790111931, 6.04549074094625, 5.747286885645285, 6.598612081303986, 5.7291944388291745, 6.74161135559066, 6.479824070126573, 5.917509778656104, 6.038968221822314, 5.14610394176485, 5.765562040436014, 5.246955395813299, 5.623363629366616, 6.0265545224942985, 5.928820034531012, 5.701654897802591, 5.464367264881483, 6.2934081510703, 5.821004128311624, 6.382465196398459, 5.3436030075404215, 6.3487468249378525, 5.472074899781615, 6.12346810043363, 5.751785508821105, 6.558432052817363], K Nearest Labels: [0, 0, 0]
Distances: [3.404532874246584, 2.820929411764737, 3.9797303217434297, 4.9010713434518065, 3.4136804051726557, 4.147156184609838, 3.416633215848966, 4.366144168040597, 3.64639130577713, 3.958000556741675, 3.5702439486902473, 3.4973054999662985, 2.013128948056616, 2.8185114807663205, 4.352592519033681, 2.247744322092877, 3.5867742136018688, 2.532684081648733, 3.5541402218786877, 2.1165623131175666, 3.3228825903014645, 2.3154096381669964, 2.7232517896802046, 8.538320248635197, 6.539825024177309, 6.363273155483485, 5.298906213088625, 4.354360572664169, 5.466765361405955, 3.340448005815704, 5.3571421249463125, 5.578073752521954, 5.622162347981079, 6.702454547595956, 5.503400233573042, 3.5799486034162, 4.81980673500075, 4.239156533939855, 4.0079636263620495, 6.331423220209365, 5.879004064787184, 6.0805150429369474, 5.691901818519751, 4.337679725302619, 5.608672174368565, 3.8708247692842614, 4.856993694842292, 5.810608223110379, 4.6547141136327195, 4.675836399615496, 5.0105470516186665, 5.158870142446594, 5.104225608128849, 5.27991488656574, 5.661212999362484, 5.460461044901006, 5.780097864504755, 5.079931425234499, 5.15951038837564, 5.694142955939661, 5.7416582548889314, 5.132813968284218, 4.050248077198634, 4.967862722572472, 5.522959673721365, 5.791335349571281, 4.7799971073712815, 5.874800618905796, 4.896821406320174, 6.229621637181398, 5.260985012212373, 5.288869178803672, 5.455446699345633, 3.8827705689518894, 6.234985147131183, 5.189753242964543, 5.5597985565642, 5.040469481851454, 5.0770012869408845, 6.113189653748729, 5.6699506001836415, 4.913367170928931, 7.041009384585224, 5.7480107402058005, 4.575587730499562, 5.695556396522822, 5.415544586574183, 6.065154619895257, 5.622863610739898, 5.188840660134059, 4.7173373695380345, 5.352474216798461, 4.798522144044911, 5.735797872944214, 6.002249026634017, 6.068626734040535, 6.207591866065356, 5.971761182011272, 6.257814831186277, 6.6147654413678465, 7.115070783860944, 7.076521772479165, 6.566483083191663, 5.493610157684237, 6.031290807975516, 5.937521266246836, 6.115068687162313, 6.064749926847568, 6.369176151329789, 6.134601955416038, 7.9528461303470515, 6.769062713190506, 5.920534216957444, 6.459848895575781, 6.102789931292236, 6.439864499879233, 5.33748289652324, 6.520491133865733, 6.4802634013368605, 6.8761113125351265, 6.383774902550189, 6.184477285075151, 5.621960407402436, 5.464842732327374, 6.44840121488028, 5.588649971943044, 6.0089682005021, 6.179292839461691, 6.190666426591464, 6.681536655119721, 5.602229831418944, 6.409223066423636, 5.057152465628887, 5.883361590675523, 6.8080812160769035, 7.207324708159537, 5.872787688133283, 6.855235335902802, 5.506353734644061, 6.567380391413241, 6.034312165197208, 6.269692901213119], K Nearest Labels: [0, 0, 0]
Distances: [3.4643665146533316, 2.6029265078448613, 3.0900309110610586, 4.356115190364775, 3.0434903449414943, 3.4235785637063674, 2.715336975045227, 3.988951866541217, 2.836576534138099, 3.371416720455953, 3.035596840037748

7, 2.4934938596122675, 2.035895182356698, 1.7139646505730513, 3.354108672242943, 2.1422906284476704, 2.7825824077187624, 2.2007827417241472, 2.287686212412215, 1.9327534917086215, 2.532322239064726, 1.9331477533877508, 1.801724037097664, 7.572947174003149, 6.402058341914225, 5.966342445680922, 4.764515541263867, 4.418293305953061, 5.823868305311272, 3.8208673277312264, 4.841090033672401, 5.135975754415663, 5.436168247376856, 6.032568900542625, 5.274617775420092, 4.790598191519205, 4.936199178915785, 4.988246367980328, 3.774661283126365, 5.858621348673635, 5.286477828219881, 5.792833070411558, 5.222647239538655, 4.99603534867139, 5.607422599979709, 3.6944974962576493, 5.5310911832327845, 6.147767232871157, 4.875077708606536, 4.63559150360480, 5, 5.507559554053644, 5.8990367643369455, 5.408224659623133, 5.684821615686403, 5.92297942494659, 5.8808648688135525, 6.107355032783967, 5.182373495852675, 5.014640733932536, 5.65959865348854, 5.822476711287114, 4.908806670745875, 3.882185240361189, 5.537331829895314, 4.770648731610119, 5.37549860397815, 4.924294912588859, 5.687279323769604, 4.608859924124826, 6.552741337575247, 5.153185258404969, 5.606203523199572, 5.403161072554244, 4.55129105992088, 6.125253509307809, 5.196654087072719, 6.11608840902884, 5.518395758496876, 5.5011506408627175, 6.694537189592275, 5.497971298919185, 5.119303223110354, 6.608103916973848, 5.592754277669918, 4.636839892298464, 6.807167667832325, 6.2291892943132705, 6.117282029503483, 5.978790127376375, 5.22977961547624, 5.004170597343165, 6.467599646512297, 5.407679665390871, 5.903888418066638, 5.515535398140801, 5.761460329981698, 6.115498926099998, 5.659465023688688, 6.168584713447259, 6.3406244301128725, 7.1661905363110945, 7.495581967572374, 6.416924317964523, 5.856917458470025, 6.212900606341554, 5.547865393099031, 6.464225848104559, 6.061820025303617, 5.5715998084497835, 5.82778105149909, 7.753044173638255, 6.645645647423526, 5.789415904406846, 6.116320881579274, 6.051730523590417, 6.123158506065538, 5.76648484457139, 6.319851116199287, 6.162160786375756, 6.866684869161718, 6.304562145590634, 6.5487806204418675, 6.219975803858822, 5.869263268547323, 6.367794219753182, 5.591976144048114, 6.22160419495231, 5.802110701136666, 5.9673848370918945, 6.693912622712836, 5.654186666210778, 5.964205797445537, 5.32312091776108, 6.054417499053202, 6.478996072979624, 6.857661697036277, 5.7313021588720385, 6.707929156364932, 5.548362021830176, 6.022894445453823, 5.70675973084781, 6.670843717599327], K Nearest Labels: [0, 0, 0]

Distances: [2.4607141295506247, 2.0090640990521584, 2.1221835736530914, 4.10877411119405, 2.636671617106019, 3.09763997063525, 3.4579831345291456, 3.076604101585104, 2.6462826207492562, 3.3645584017646515, 2.9495029492852, 3.0030233552818815, 1.9149376569450915, 2.8510444883314694, 3.83642650555556115, 2.4849059638243327, 3.475762791180078, 2.4510210984021517, 2.729745589166074, 2.9957397155860996, 2.8450661375624957, 2.4599042948747236, 3.482150028035827, 6.419885008676466, 4.5444169113085096, 4.47439720705525, 3.3922555926873885, 3.9064889919319974, 3.8265730453865547, 2.385074638190783, 4.107279603129779, 4.206506897667905, 3.8375145377626465, 5.418126534246091, 4.116359321401724, 4.0109559795217, 3.9315976371218153, 5.308661583021922, 4.027827378330606, 4.3452711016433465, 4.085476988097095, 4.167503738005716, 4.074911398915221, 3.4148131479783195, 4.0799758887333075, 2.5543511333541966, 4.099710439861382, 4.537156880423098, 4.079679833603491, 2.887933556803529, 3.7087849515501503, 4.606515798307006, 3.9315157812816808, 4.342842344324802, 3.8732702314916465, 4.1323629767872125, 4.159292727087777, 3.6614598974220147, 4.190438821400002, 5.115363150259785, 5.255607399325573, 3.410443544149689, 3.6941085924798647, 3.661401140415423, 3.734691786175128, 3.952851802437254, 3.7650101764118546, 4.312021179105189, 3.427186725710769, 4.545614533795984, 3.6164567983194202, 3.951106507489876, 3.8680903900056416, 3.828604094473914, 5.7357245038228015, 4.028692229057316, 4.377644737114578, 4.144595821591514, 4.185216493372997, 4.909564969614544, 4.276305813014727, 3.531683315548656, 5.1334415040968615, 4.054489475308336, 3.9681470129180396, 6.618826284295783, 4.968631407732858, 5.224960047726344, 5.425686921817257, 4.002657698557685, 4.023504203763852, 5.1873026815595695, 4.002632437963547, 4.7090023903963, 4.876843131673971, 5.069355060189835, 5.586223782596406, 5.268328253305019, 4.7682691872071885, 5.099719881474608, 5.975652395329029, 6.240320763027014, 4.949630608590063, 4.647535190726106, 4.829156540845066, 4.717422458537885, 5.1143015749241405, 4.646325688934013, 5.359682945973469, 4.864795821655343, 6.677440163205113, 5.951685855297636, 5.226680550809369, 5.812515416982645, 5.986911699053499, 6.205234515087508, 5.5

78221971267154, 5.567836847766893, 5.266102436019053, 5.985840521096583, 5.488371608367991, 5.902219414777602, 6.280445556248626, 5.676020119297609, 5.624387120554795, 4.274647712955201, 4.75695548814563, 4.77460335801234, 5.418301024333477, 5.494957302014488, 5.298755387714925, 5.523544608018114, 4.9588088378831126, 5.9919882473506005, 5.434580468548401, 6.157920378676717, 5.185831646768291, 5.905694093705323, 4.925011968419827, 5.770901416217197, 5.155058352156647, 5.994810405154536], K Nearest Labels: [0, 0, 0]
Distances: [2.9016765384729055, 3.4399674589630798, 4.2314448318500215, 4.71973255631529, 3.656853218070586, 4.971891234575607, 4.3205273994417555, 4.64165822516065, 4.2488988202541345, 3.795031615452091, 4.415617357080497, 4.627413567316268, 3.526626059623006, 3.5819702238542384, 5.919153618255091, 4.067905838728458, 3.7322450450422884, 1.9560414816532412, 3.6199359903234654, 3.6673317548558075, 3.5629971235473397, 3.0388391401935473, 4.013079504374475, 8.235671267595718, 5.253911498287279, 5.58217975598181, 5.133717337225619, 5.649044112871708, 4.838902889391465, 4.116266261916099, 6.546642378584969, 6.153360299907756, 4.125837397870285, 6.3197296283811495, 5.574330929678675, 5.238486629585848, 5.494120361935907, 4.490565133151797, 5.064416627278894, 6.200172385129682, 6.418873226974496, 5.285815081330646, 5.37711951632553, 4.723728364926752, 6.067396704946916, 4.9667461806897295, 5.5949568886115015, 5.9976524646041005, 5.801735558509699, 4.788850935894591, 5.394318058696605, 5.5937660106689835, 5.38805030459045, 6.093458937594024, 5.9007381220733865, 5.735385575426412, 6.031713062837333, 5.923568909180325, 5.638217717250363, 5.23609240384635, 5.565297110444603, 5.832693957366305, 5.420219644105488, 5.881825423969838, 5.774853231946509, 6.164720733116988, 4.977996845254539, 6.2786441856034, 5.517667981680508, 5.9159209583211165, 5.906255100823794, 5.793951373802128, 6.00286506360891, 5.245186865755109, 7.476581597677202, 5.825795608610317, 4.701087447245252, 5.445406239250498, 5.3641566837999255, 6.45153749645715, 6.262394851098474, 5.030145422250209, 7.021004355138181, 6.27459364476414, 5.279301641627594, 5.919266125971216, 5.725586175362855, 6.994427324601605, 7.268707144940976, 5.725424322853066, 5.633874984335142, 5.797287958363735, 5.71092915448816, 6.283098329003752, 5.648784624371431, 6.128177736718146, 6.528851617930142, 6.222240017038468, 6.067995995653551, 6.044886877521235, 6.911661034735681, 6.772540144908735, 6.1810832583467485, 4.9394113370928165, 5.466485833820085, 5.851017962998965, 5.599546313244274, 5.871678054321935, 6.19657106508522, 6.064762185913065, 8.069786659562238, 6.820452599035835, 6.123105560103664, 6.391940548422207, 6.218124063351609, 6.69823486908885, 5.779879777086141, 6.439432772294241, 6.228778331663987, 6.8571580403749, 6.6289069408093395, 6.012750692262283, 6.47682763743289, 6.254996254213962, 6.5119854997522415, 4.729462032742984, 5.168506137638255, 5.759238621721388, 6.385467783706883, 6.688248987290577, 5.518089265622419, 6.539981122882194, 5.34865805905424, 6.030518649490133, 6.556160838513159, 7.07694346076569, 6.029381582083267, 6.64519506973428, 5.629126454111293, 6.126793915427951, 5.35687990584243, 6.291090960379123], K Nearest Labels: [0, 0, 0]
Distances: [1.6278858333823187, 1.268418379396196, 2.5748342257589143, 3.911769856542956, 3.0687909622251257, 3.1542306392731763, 2.9039044611814746, 3.120833908152299, 2.9651322749469187, 2.8199368212128557, 3.3655301883526647, 3.2914082271884157, 2.290405547892813, 3.113161831436254, 4.4888215922989385, 2.3625645237888198, 3.6144255052189096, 2.0196747034908347, 2.29208537223729, 2.4653186485379206, 2.8612500010494033, 1.85630814521519, 3.002020586198672, 6.941979158139643, 4.951815485500758, 4.8620878415655975, 3.79785294119135, 4.216241342188244, 3.9807404516024194, 2.662692410249773, 5.145194182394451, 4.471240599163091, 3.906915106981638, 5.605142638995523, 3.9667562575949034, 3.805645658213824, 3.64212733407865, 4.562869669843745, 3.4697978753885104, 4.783997230260231, 4.775717879854913, 4.144525532727679, 4.67928792415196, 3.788154340695523, 4.654170112062323, 2.9126569804241145, 4.117200309815766, 4.945271907725047, 3.7910218684453896, 3.1882796289707764, 4.053669104781259, 4.386013591622392, 3.965612119047867, 4.525003117949091, 4.4599704106701905, 4.353750487439097, 4.738016712469691, 4.083868111036277, 4.04220187235705, 5.305149213615422, 4.154136170109176, 4.211563348189503, 4.071993356642454, 4.876377017709745, 4.334930549522631, 4.297912108413203, 3.404892956992449, 4.782374853802783, 3.8042916296440983, 5.060905864252311, 4.065630858233126, 4.222140824951967, 4.545360453051929, 3.639827208709857, 6.244040760970835, 3.986046207792412, 4.218900511829224, 4.173369

3337571, 4.048923942528414, 5.7471744674331875, 4.481206854242855, 3.617845
43707718, 5.4450120596893825, 4.561987434124861, 3.7908868332696644, 6.0145
18604294129, 4.629632203736486, 5.43342888631925, 5.522545773591192, 4.1875
62390239598, 4.172710104441509, 5.035558925446547, 4.173102887718098, 4.662
173636381543, 4.17693320014096, 4.394935514970144, 4.869928618874615, 4.483
06300845525, 5.118004622823057, 5.316000619601641, 5.746095214257098, 6.103
1234862377755, 5.210482509886924, 4.259471395852973, 4.407505942137681, 4.2
55751700709268, 4.619464363223781, 4.714327947323955, 4.863256777834123, 4.
726615317176577, 6.555772020929186, 5.611258474934021, 4.96712076468545, 5.
292395789915815, 5.046070364421483, 5.444282796925514, 4.6415805610385785,
5.807972504690987, 5.331270302203512, 6.081753474390342, 5.504424683135987,
5.52691414142046, 6.197682209372779, 5.60441924104578, 5.460965881019174,
4.008123475122823, 4.579158486082367, 4.415530166127067, 5.165474416401411,
5.560434805415837, 4.846805586379078, 5.278963734466315, 4.271894431552557,
4.963134992040072, 5.102068565532283, 5.969264606184057, 4.926531991399109,
5.7491248318173405, 4.533620261268002, 5.458036763442026, 4.92269893898411
5, 5.683681320018885], K Nearest Labels: [0, 0, 0]
Distances: [2.7681148249888707, 2.158078794517694, 2.6574020992083742, 3.84
52365277879017, 2.347782940737794, 2.632919995192941, 2.4443663037641206,
2.734740086761519, 1.9479176869985948, 2.8163879465428145, 2.69014574308071
67, 2.19430462826592, 1.8651944132913763, 2.612307209438809, 3.801941134455
124, 2.173731618207775, 3.24563555077679, 2.798440253318579, 2.161473100994
1273, 1.983741425892454, 2.345501378315538, 2.255234968035941, 2.6699646412
407674, 7.018394944788684, 5.747388093057759, 5.20300431709825, 3.828994759
8596235, 3.1711331274176517, 4.612019412663634, 2.8389874422595356, 3.92776
6524498528, 3.697405078674366, 4.7691653124625555, 5.691887738421071, 4.591
636626082507, 3.111264059573054, 3.301559829330497, 4.432520302997771, 2.86
74382752617804, 4.91414963527512, 4.295227057694263, 4.609535898758162, 4.9
167681663992955, 3.320857226606333, 4.087210081880168, 2.1823195150242207,
4.134651636348482, 4.985776509198487, 3.45094984601114, 3.0192047986147084,
4.181281196041979, 4.391388661773784, 4.040102837979882, 4.092367264624743,
4.617661779158705, 4.418192822933426, 4.860760332787116, 3.384503823747128
8, 3.607394838029025, 5.5909553938065715, 5.011073907179541, 3.631417635385
4695, 2.963305686679117, 4.286524058220474, 3.8871052991778754, 4.124399222
179309, 3.002812189584882, 4.351768173295813, 2.998120277049321, 4.85267109
4810894, 3.571604839193746, 4.147597691413279, 3.794446277796117, 3.1675092
675479086, 5.363233762675215, 3.4288176530284704, 5.0293764033937665, 4.182
144758430751, 3.6786102574576636, 5.498318832859678, 3.8988863208380007, 3.
3678166540586734, 5.448756832725218, 4.146510278421441, 3.113079905198282,
5.717260114028066, 4.53291741537292, 4.665102602538196, 4.455907863799032,
3.384161765249069, 3.2898306426327406, 5.054495229493813, 3.57843220534363
6, 4.518581404390468, 5.025743557961188, 4.988675758325607, 5.2997371690861
77, 4.997235395083192, 5.451343230956731, 5.72663140605066, 6.3996714518752
995, 6.514240584015002, 5.5299708208229035, 4.7489093596630525, 5.082820033
1941265, 4.636929956962965, 5.316303687136007, 5.026583903662477, 5.2454102
51388141, 5.149094322192228, 6.8592247917993605, 5.836305742862972, 5.13145
2841867116, 5.637795729591827, 5.5360128213550945, 5.653104279163535, 5.003
609030196008, 5.948769417282471, 5.586301371384361, 6.290144887852457, 5.57
7727015286234, 5.922610971993131, 5.917088272888906, 5.41868621071107, 5.55
3302277526431, 4.851730821643771, 5.210920086996304, 5.06894134547106, 5.35
02555330305315, 5.781715877911334, 5.295937346185961, 5.472969899734493, 4.
742404852077228, 5.398600404011302, 5.5505985655340275, 6.161215342392718,
5.196389371150747, 6.1186595674208535, 4.950156917138603, 5.87524998791164
1, 5.473569143117912, 5.961248515036282], K Nearest Labels: [0, 0, 0]
Distances: [3.373441528671851, 3.2063717079007192, 3.2562242266422197, 4.30
1014865359977, 2.240641244942829, 3.219701318037445, 3.0796947449444194, 2.
458086002102678, 3.5483612215781752, 3.284305370032432, 3.968842695156979,
2.9623395941636295, 2.837184583483043, 4.394543997092018, 4.77064748485908
9, 2.2482793054658092, 2.7874362405394546, 2.4558331669523765, 4.0926372439
42099, 2.550687928177771, 3.379272501479045, 2.9613024425291394, 2.81807122
02594553, 2.3512025668556213, 2.555292681780781, 3.73025606449334, 2.084634
1381347204, 3.243141832823842, 2.0605107176439748, 3.233707352692882, 3.404
532874246584, 3.4643665146533316, 2.4607141295506247, 2.9016765384729055,
1.6278858333823187, 2.7681148249888707, 4.330656989994128, 5.46609034487234

9, 3.9625624032767695, 4.847214816681424, 5.043586611339384, 4.18434851003772, 4.955058202541587, 4.15901927747381, 4.797866140134429, 3.447509832209175, 4.523052235945074, 5.231101234176626, 3.8208737695707438, 3.355644161349129, 4.452466496622536, 4.811570600559343, 4.168764017486172, 4.956465317618482, 4.490124399015907, 4.581400509388977, 4.948950527981725, 4.239442600388101, 3.9594309912085386, 5.7774476618301565, 4.502205032978118, 4.270195511007217, 4.198305648322931, 4.9498807979286354, 4.821145305707314, 4.799485664011978, 3.536617699225763, 5.010297508692797, 4.409035212131031, 5.189715384960536, 4.385862054839212, 4.645677956357291, 4.7678866669449596, 3.710233141683211, 6.666468059639231, 4.269779826476325, 3.863189617664449, 4.057543380219047, 4.0490245865679535, 5.856625539237993, 4.945223063480711, 4.107480831463053, 5.465228550602227, 4.9806588752025425, 3.8773186639170256, 5.928192724031014, 5.0071291327801335, 5.850840688454245, 5.804151195697823, 4.361710223595811, 4.264600238403775, 5.308828362538646, 4.61072848146172, 4.953045956711681, 4.379451224862465, 4.6596171883889355, 5.33701658956968, 4.8943147431855625, 5.003680197628257, 5.3158681082814345, 5.878519057261658, 6.2795774254245424, 5.374346972079097, 4.425926835776704, 4.42874550579204, 4.630883068286549, 4.807327380099212, 4.936976286302864, 5.207908055231815, 5.270004885000405, 6.813230906692551, 5.761183720992026, 5.195323890291027, 5.551784729935649, 5.420792908361864, 5.642746982880529, 4.921828653574317, 5.845437988830433, 5.526137239605328, 6.346209087441357, 5.605896851510679, 5.863580230104656, 6.396572376704915, 5.6493316251009, 5.4554325837016036, 4.122795419180474, 4.664183073809221, 4.609272655285296, 5.519102144988238, 5.937128930322529, 5.139157398433371, 5.4429185523588135, 4.755176533770299, 5.298562334318267, 5.185123252086183, 5.957857818028642, 5.083391537465058, 5.963211706278383, 4.965611205960696, 5.765149721943682, 5.118151740656526, 5.850497734310255], K Nearest Labels: [0, 0, 0]
Distances: [3.7936223822897577, 2.9225213583316556, 2.985029888758463, 4.342811648828744, 2.8737353473786875, 3.196234569539814, 2.8109715445184595, 2.7328871323531185, 3.192666594193486, 2.938966584315364, 3.273855619933588, 1.8914943138163327, 1.8689758873415179, 4.397221180181509, 4.629504063182454, 2.3328094283215584, 2.9110061196611654, 2.5396358451145367, 3.8669092156671327, 2.9820578119696344, 3.729987629448841, 2.8872238547878837, 2.53178383916427, 1.6762463621858787, 2.2740143989965365, 4.317141188323323, 1.8580078623307734, 1.8172803283227998, 2.5370284964824013, 2.6392277903873045, 2.820929411764737, 2.6029265078448613, 2.0090640990521584, 3.4399674589630798, 1.268418379396196, 2.158078794517694, 3.4327859151526665, 5.250971158243083, 3.1049072094856838, 4.102314399543118, 4.146497801679822, 3.8873016872368393, 4.717511335744397, 3.8448503443962476, 4.06745524282987, 2.355924807272345, 3.5761808580122025, 4.690264700173862, 3.513429610163547, 2.8644224984278965, 3.570320208908865, 4.137813195665385, 3.4047002104051525, 3.9455227728947424, 3.8272223005185166, 3.947763969181643, 4.23971304769423, 3.720221930177509, 3.5341124239252504, 5.812550614570506, 4.420518426804427, 3.486409788908174, 3.4831475717945994, 4.531500131587472, 3.7563035782051526, 3.7613709705246827, 3.3074568725156066, 4.078538125201791, 3.3557669075888343, 4.914465658924145, 3.513132422838626, 3.865426897746943, 4.137955417661033, 3.4270771717747786, 6.071028479898985, 3.55041282554386, 4.076649586911742, 3.5065881485987442, 3.653199506149804, 5.22016584256368, 3.9869231733574795, 3.573953316900013, 4.878453740361839, 4.122048256635107, 3.490160374268915, 6.413085626611823, 4.853245171162317, 5.351465699525074, 5.384390286686945, 3.7490502814496613, 3.8186763599916693, 4.938009530343321, 3.9155492761493105, 4.2369921528512675, 4.035516434690204, 4.153997253474484, 4.628151100780817, 4.230071244955317, 4.467405684985227, 4.863469031709918, 5.369168353218052, 6.002387206286272, 4.875284618648675, 4.14926339703936, 4.285682792524068, 3.9855456605154984, 4.611271829366327, 4.537130619733794, 4.680627838913654, 4.537338094320919, 6.280545922928275, 5.346153973154628, 4.720406743888114, 5.269700346298267, 5.2942012720620895, 5.410976222655957, 4.7800977036352394, 5.602121060038971, 4.998552501989903, 5.909070904536701, 5.333261412254184, 5.395431482377772, 6.341281758268929, 5.468633179060527, 5.0351341539278085, 3.9848294327042617, 4.546150073317249, 4.2311573805407905, 4.95623419962054, 5.389313037290087, 4.94088421488408, 4.879806011826307, 4.410083878389525, 5.218598057581704, 4.706970361853557, 5.548587916379864, 4.787623194916935, 5.677491684018775, 4.4856245452750825, 5.507913352673244, 4.965275632161527, 5.7588196726266165], K Nearest Lab

els: [0, 0, 0]

Distances: [3.8727164665802394, 1.857356008927494, 3.86367262025753, 4.774970529548772, 4.102627163882502, 3.529205049855167, 2.994797677937305, 3.3918428626683514, 2.7134172290390617, 2.7933109015309756, 3.4194390134939336, 1.9645284478156058, 2.205811593015706, 4.270329989697932, 4.640320675150831, 3.283227566895644, 3.9774613774007053, 3.4917094665970416, 4.267112887611964, 3.305147556311282, 3.507703338420525, 3.6187244719526372, 2.408392016992482, 2.2427323689395138, 2.986032373799025, 5.728994024392625, 2.691887921459447, 1.3653111017349049, 3.5544723291195797, 2.283712875168559, 3.9797303217434297, 3.0900309110610586, 2.1221835736530914, 4.2314448318500215, 2.5748342257589143, 2.6574020992083742, 3.632566934978545, 5.984817430645086, 3.324073503770067, 3.3100688085708154, 2.8847709686119862, 3.8084894180408275, 4.165379390471441, 4.219453748485429, 3.337859816004316, 2.022525769051294, 4.13646454846591, 5.115182893143303, 3.9554780268858196, 2.437565247131146, 3.7869608871323575, 4.823144071715229, 3.9254044391040055, 4.1706996966014716, 3.8988151750058995, 4.344506298744767, 4.393895965177046, 3.4079659572880807, 3.3360121518591357, 5.810198750558207, 5.18169887768523, 2.50700620212163, 3.102316142007241, 4.314732280831382, 2.4292943274091923, 2.9970986163759545, 3.729511441830489, 3.498326787300709, 2.7974315966158962, 5.03435181719007, 3.1727552548333544, 4.133901835332244, 3.59457358010629, 4.144534220849165, 5.7780247066387025, 3.4205021599985654, 4.994859050542247, 3.962114396656347, 4.1137325108036435, 5.067623332082821, 3.555365391649637, 3.5137839363587173, 4.4872051183868855, 3.736502465282866, 3.829663856432403, 7.495541307219799, 5.705057036368412, 5.3748533508633205, 5.624351951256527, 3.625431557164128, 4.012773912015534, 5.9372682475614145, 4.215828118880395, 4.673360018883501, 4.228507268342868, 4.594346864362707, 5.226112314886331, 4.706521394005519, 4.659046798516935, 5.072353158087243, 6.005518541382111, 6.795274484162302, 5.053236241214948, 5.041713264015163, 5.117368020312726, 4.385256016323003, 5.484984044728005, 4.897614011944089, 4.926237639546584, 4.812149719819576, 6.500348660970255, 5.991047641730553, 5.342033692484107, 5.793063263526478, 6.115154572132577, 6.056776781395352, 5.847383877814205, 6.0038487521847035, 5.166717979883172, 6.4425874415059665, 5.8185068300551315, 6.409394081495585, 7.269168921343278, 6.355132945029998, 5.58644934192216, 4.661838481065523, 5.276500826848019, 4.605316405450005, 5.428254164934645, 5.773896574694676, 5.8243397247925275, 5.287754854743898, 5.493439181689333, 6.347165334402983, 4.998360932939761, 5.869469757434099, 5.428925961311417, 6.257807353100473, 5.297541535867019, 5.943288702584335, 5.523933397961674, 6.7347631278740145], K Nearest Labels: [0, 0, 0]

Distances: [2.6809202981921048, 3.955546727866981, 3.9216631418443404, 3.809446792646228, 3.8476678936693616, 3.7485732664569933, 3.703546159959938, 3.456409168461875, 3.803108716800587, 3.7244577075850134, 4.113328909099917, 4.51892971297878, 4.399007943869543, 4.757182293874972, 4.540378839470474, 4.146783840434603, 3.8627882540442244, 4.24313129777597, 4.894992434549459, 1.8198732262208066, 2.6415754018331485, 3.2748833211896393, 3.55618948330508, 4.360126833406467, 4.172391817105664, 5.620790152671982, 4.084763623814895, 4.7329390052316285, 3.938551234226598, 3.693610799884118, 4.9010713434518065, 4.356115190364775, 4.10877411119405, 4.71973255631529, 3.911769856542956, 3.8452365277879017, 5.983856700312544, 6.130939917445458, 5.258662470935441, 6.501020591522258, 6.189027921795979, 5.699688419931964, 5.377832503479485, 4.888683653526923, 6.505448971593379, 4.95000567659092, 7.18355164382742, 6.568438920334876, 5.364996028094643, 5.24213429270602, 6.774707160716904, 7.252307295355052, 6.55697156661184, 7.15193433008987, 6.7334841596370145, 6.896369570320526, 7.134239022374698, 4.972456625385684, 5.2446517854712145, 5.541372146317719, 5.8176588026491345, 5.634845583673034, 5.279395664961068, 5.680673360528289, 5.752968100929261, 6.2871153265426765, 4.895309919419809, 6.4579760841397045, 5.708491667152447, 6.759871616084071, 6.027699827746551, 6.591237985239054, 5.813288231651029, 5.386950393333075, 5.814670800869542, 5.454554777084763, 6.610145772895392, 6.764460409757098, 6.339703339515855, 7.890609545363017, 6.362460272090242, 5.545755725232781, 6.5029106288424465, 5.721369461560029, 5.030584063499342, 7.247466353477682, 5.916406460722423, 5.123491849901279, 5.444870744553338, 5.711458365607489, 5.639568318739311, 7.532784589650906, 6.234307307196994, 6.161227672830093, 5.898747994802489, 6.020294837596297, 7.003150695381581, 5.967793

340307391, 7.21632491883466, 7.132351688216959, 7.464505316315482, 7.498121
216251522, 6.739514274232125, 6.427622057552321, 6.535079982620357, 6.25229
0260660597, 6.783185846316511, 5.737295704118886, 5.815095835484239, 6.2014
71492852154, 7.536486512512446, 6.836167227093543, 6.368389003213658, 6.193
963531735506, 6.142145966228214, 6.5040069662071955, 6.277100773135939, 6.7
10614658391682, 7.140258393173175, 7.038202961465011, 6.231427015436006, 7.
7589934053584, 7.199617956801539, 6.945389046400652, 6.7330725043636015, 5.
822995783292264, 6.486529373868844, 5.8248205107526525, 6.822642545319174,
6.937256943613764, 6.188013126014733, 6.730049571396872, 6.250903946096872,
5.9544879593376345, 6.751977321774112, 7.559956218784188, 6.37745671844697
8, 6.47853166568609, 6.014600873426446, 6.074955571659625, 6.23014913175386
7, 6.88403204572234], K Nearest Labels: [0, 0, 0]
Distances: [1.879877204797264, 3.237651523376218, 2.6435267011563446, 3.018
8460519617553, 3.151522947227247, 2.5971479863854507, 2.9540720176472735,
3.187066670852403, 2.7907366742408364, 2.1898635497910615, 3.11234981887747
3, 3.52432632379077, 3.196774918150212, 3.6029891551299, 3.593416466388086,
3.264923467495496, 2.9923582638985793, 2.715421208504854, 3.73202258320214
8, 2.570483198008627, 1.5296702634714365, 3.3278653298968304, 2.59907738081
00616, 3.2683319654469143, 3.1687547323757146, 4.837836827599291, 2.9966068
09514128, 3.6478010312909026, 2.910938657264213, 2.495945731091821, 3.41368
04051726557, 3.0434903449414943, 2.636671617106019, 3.656853218070586, 3.06
87909622251257, 2.347782940737794, 4.970588990214111, 5.222469077325535, 3.
896861557061101, 5.469548292116571, 4.8623343049710765, 5.136352228715231,
4.122638531017977, 4.1180347046301025, 4.989847885551617, 3.58701457987294
6, 5.740296514547233, 5.733055944255462, 4.070932747880266, 3.9174263840822
73, 5.389071590003121, 5.988842343935839, 5.256442242636288, 5.656567064959
262, 5.442434901632439, 5.4920819856516125, 5.718881925878095, 4.1954119676
62078, 4.323664322371656, 4.698162171422154, 5.697635973464678, 4.171075460
780416, 3.3112456684126363, 4.435197087344588, 4.58357086301047, 5.16856103
7871583, 4.027986909464104, 5.062038173662536, 4.317869526238675, 5.5516668
89844224, 4.67915958879733, 5.258139238140392, 4.126513854164597, 3.8833834
21962459, 4.953126572053552, 4.581588784275179, 5.787963576788647, 5.099308
446501934, 4.920047896048728, 6.243273437247208, 5.037707645884459, 4.28747
9108447644, 6.064256681492953, 4.9566999537779886, 3.785514252453178, 6.122
2365731687045, 5.611711434807837, 5.321494383541239, 5.011233001002068, 4.3
88557571434883, 3.953731490893362, 6.152529903441297, 4.707703673434632, 5.
6591589874783566, 5.471697802334506, 5.860784518055068, 6.429781997825988,
5.958107341913121, 5.830035988761381, 6.102322704602194, 7.275554390813298,
7.290181095225555, 6.1777081862912615, 5.690402971145287, 6.01678444794511
1, 5.777600454102985, 6.438415682695056, 5.804182866214889, 5.7034417488138
66, 5.826576033569022, 7.716824345842138, 6.631346449348841, 5.728331775550
003, 6.0387854694587375, 6.093594173974554, 6.078809173317852, 5.6191402434
0881, 5.858202144164029, 5.835118914879253, 6.704186980847996, 5.9168636547
36174, 6.774120828155278, 5.877934633308736, 5.544325343272905, 6.088130368
371369, 5.513125685338936, 5.87798620359352, 5.6598382492019805, 6.15517853
6594861, 6.601091448916993, 5.780910074079505, 6.1600506422290175, 5.590980
427998974, 6.241392182790663, 6.307159897045595, 6.750071978552821, 5.74357
9169754733, 6.669832873182856, 5.661717565049655, 5.9703934099855385, 5.482
095360960229, 6.521842331815737], K Nearest Labels: [0, 0, 0]
Distances: [4.299768820170305, 3.1831524363081782, 3.6812149893001935, 4.60
6253929264469, 3.99662505662143, 4.006024346846972, 3.226988442741197, 3.64
3567141577463, 3.359848090787638, 3.2509843126340057, 3.6440918896435153,
2.932909267410067, 2.8813830759430172, 4.918214854317498, 5.10851101371861
3, 4.020864665910553, 4.134043301097953, 3.976236595948046, 4.7706786012903
01, 3.072664597727825, 4.112850415086216, 2.688579833674824, 2.854546238277
287, 2.9021201474269485, 3.104866899120333, 5.737258640657213, 2.9502553207
635276, 2.3042060711601526, 3.9124396405387443, 2.715298566181633, 4.147156
184609838, 3.4235785637063674, 3.09763997063525, 4.971891234575607, 3.15423
06392731763, 2.632919995192941, 3.4844055395348867, 6.074213778139148, 3.90
3842503265501, 4.4926163761691775, 4.195845175739279, 4.093694920721076, 5.
463801256877586, 3.484335984703658, 4.594584495176674, 2.6407188935513872,
4.728954221535243, 4.164031487672329, 4.457482703067679, 3.854409581446754
3, 4.495593135560548, 5.135272215346606, 4.034350765996681, 4.3128192300856
86, 4.438023161063888, 4.682313075081112, 4.6863455677680115, 3.42397648275

4022, 4.038342694851053, 6.611897478189537, 5.55873242681412, 3.78226047616
53627, 3.8160723105751746, 4.506990745865557, 3.479561698491465, 3.79997167
5101259, 3.3031808626516304, 3.9486879788014817, 3.003315044622315, 4.70450
9672688499, 3.4753843578866577, 4.077708673976712, 4.0183984758130205, 4.47
58275977620245, 5.1619936869821, 3.145250521379971, 5.3334483702940245, 4.8
71391873584216, 4.247204678693689, 6.0397774454348045, 3.8831667258882208,
3.9783527610801435, 3.99566164468772, 3.175243952929666, 3.54296846650368,
7.207016889865294, 4.536794468408537, 3.2479521099511866, 4.31966815714644
6, 3.3736138251664722, 3.7754968380504828, 5.648719363245407, 4.07966907178
449, 3.3655136851357335, 4.949018026770698, 4.290853902680844, 4.8636662299
00379, 4.154452488851513, 5.105272364611314, 5.020588744938886, 5.162463629
7962585, 5.607258956559013, 4.430405945801519, 4.589975567682929, 4.7457011
45504738, 3.8725305208432563, 4.975633242727725, 3.665270407223678, 4.24358
6554374494, 3.966223244748784, 5.2953951258148475, 4.671532679806562, 4.422
999908948792, 4.940733463939113, 5.486881391282139, 5.515156295441537, 5.52
9333564138913, 5.370697021114545, 5.335185479525855, 5.0985485288066705, 4.
684039738560128, 5.688060758595586, 6.675134962012997, 5.889199978840099,
4.630998685777782, 4.388222119555942, 4.876243806847874, 4.107820336349301
5, 4.7861918187491606, 4.677257463097927, 5.112139674353542, 4.623417110230
0765, 4.897358044158165, 5.102474528650516, 4.673468474154575, 5.5282567763
78998, 4.851676117526633, 4.764289979077311, 4.250731880799302, 5.068568447
351381, 5.250168409562791, 5.584594583493657], K Nearest Labels: [0, 0, 1]
Distances: [2.704624115947255, 2.863393657186491, 2.9251038240483562, 2.453
6129495612915, 3.7466318724891683, 2.5156050176731264, 2.3321383117108647,
2.7996678413815825, 2.7926676140532822, 1.8101749328581587, 2.9532911330741
22, 3.074973731053222, 2.6023853508257075, 3.9570488532691885, 3.6165285227
66094, 2.920836832765846, 3.1493321448398985, 3.2308835532605626, 3.3809640
561532435, 2.0771153781685774, 2.7552613517614066, 3.317904422293578, 2.255
644526016631, 2.762855368207317, 2.8634905197074945, 5.345445821357168, 2.0
293468984757537, 3.3188853585330795, 2.9798347484703336, 2.460661606893095
8, 3.416633215848966, 2.715336975045227, 3.4579831345291456, 4.320527399441
7555, 2.9039044611814746, 2.4443663037641206, 5.087869050172161, 5.82452452
2847959, 3.8294770405091763, 6.22726148625034, 5.472632967134876, 5.8988515
07442459, 5.89344245426352, 5.039731000615621, 5.632175021609587, 3.8358847
390274238, 6.016016889434165, 6.547543756470154, 4.400636865256875, 4.52691
3002600443, 6.149089622514764, 6.375628507696536, 5.688955701402334, 5.8795
33109462945, 6.154078952975342, 6.265773043540013, 6.519505811400131, 4.713
0554486208025, 4.580148510380853, 6.495793792123223, 6.094114016206047, 4.8
07974733154105, 3.703917747661741, 5.629051574050519, 5.255274250477627, 5.
641938434381874, 4.351113544853076, 5.792498002321102, 4.73970565718987, 6.
544769520339168, 5.197088957480946, 5.960416761656288, 5.303932747511928,
4.26404308230304, 6.268516897612223, 4.805993589884464, 6.327726505705157,
5.6819731600862236, 5.191904445789461, 7.263264944694383, 5.55751553418040
5, 5.294293417188193, 6.37879091680787, 5.6059315448324805, 4.2093429150091
38, 6.646696176584585, 6.151871916823443, 5.648074594430746, 5.341610327871
859, 4.850453868610991, 4.601274086637996, 6.906871010979568, 5.49248868743
43395, 5.870181810506506, 5.8216733611686475, 5.9963715916638956, 6.6081842
2531535, 6.002451323519088, 6.548406748155854, 6.881077130499509, 7.5286788
68451892, 7.8837689827210315, 6.749617821015478, 6.195429011518755, 6.29958
4312820262, 5.725838964480991, 6.653182932983237, 6.148263484428402, 6.1276
204294834695, 6.358732748737379, 7.801272904734687, 6.8165367486196775, 6.1
740445528597085, 6.593054347293348, 6.47943044022239, 6.506908339628123, 6.
111640535764393, 6.873173652275852, 6.84174170490939, 7.420837606270191, 6.
463948087360429, 7.375402384536874, 6.803480467538875, 6.343346425440355,
6.56079173338363, 5.9821495397438955, 6.616817619183666, 6.056702561881248,
6.537922794555677, 7.15033683882572, 6.459401615538385, 6.4770280608978235,
6.056887030216371, 6.300849003722837, 6.66037096081785, 7.157475421822369,
6.062509757310088, 6.990971846546869, 6.168174971205074, 6.733787581585994,
6.469048584982585, 7.005225631400325], K Nearest Labels: [0, 0, 0]
Distances: [3.8831765271341565, 3.353587570163392, 3.5395007501488474, 4.61
354984962389, 3.1151254307525944, 4.081997833679232, 3.5655319134165016, 3.
5967503827151135, 3.6242845526257756, 3.464252996123055, 4.21579925572281,
3.6790769942440504, 3.5417571388162497, 4.942227476703416, 5.29638089866909
8, 4.094523434708375, 3.9942354944557557, 3.797619439442339, 5.156171460210

548, 2.40793420533238, 3.5702084977747988, 2.0759719589493963, 3.0492268212
61836, 3.112077332621424, 3.1125914379221356, 5.079566412603564, 3.07913754
66645343, 3.203567508510411, 3.6013642356115976, 3.047260256604976, 4.36614
4168040597, 3.988951866541217, 3.076604101585104, 4.64165822516065, 3.12083
3908152299, 2.734740086761519, 3.7590473642782394, 5.887332782484668, 3.951
676408008289, 4.434749306999855, 4.470340670469861, 3.516626529539446, 4.91
0282540549287, 2.8727412734605013, 4.630834947805878, 2.997663776205386, 4.
959667355093998, 3.9086491852429304, 3.953053720091514, 3.660361160692462,
4.517951893355094, 5.173762862174926, 3.9789761015932377, 4.63902853708330
8, 4.291561399181331, 4.5064131243361825, 4.636796356792352, 3.043482189871
7646, 3.633769440077869, 5.9361794681887305, 4.9509815210878685, 3.78554957
02717943, 3.825114964670168, 4.13117735307208, 3.8726406901109964, 4.116884
494013872, 2.602363069172688, 3.8995063113973756, 3.412882498928219, 4.2535
87717623114, 3.6004145141042816, 4.035283641690805, 3.6313806700711884, 4.0
22393900660592, 4.632685234123997, 2.941529649629967, 4.800752396255066, 4.
582823427119295, 3.970735942260329, 5.996278103196503, 4.00058033099337, 3.
5612179764603074, 3.88217300710837, 3.108896286890969, 2.9651399440220447,
6.468158441656447, 3.8506196323601634, 2.8293762233278246, 3.80936124211699
5, 3.1153110053491138, 3.2953498097053613, 5.271766187103581, 3.80790431087
7227, 3.2191050757039545, 4.596090564814165, 4.0492119602391465, 4.83034064
1987228, 4.000901237914353, 4.912252404322528, 4.8045886587834925, 4.988518
0808281016, 5.156864624758824, 4.315769168202859, 4.177860319716907, 4.3589
65674183399, 4.040823750306535, 4.69926481320719, 3.3852937246724943, 4.018
831877113506, 3.8804279078862676, 5.283346129553411, 4.436454118626186, 4.1
62543730154837, 4.47514724622408, 4.965655735121403, 5.0445968674340085, 4.
900899229329634, 4.908312012849444, 5.058328355160799, 4.799329676469303,
4.256179945979932, 5.49951145240371, 6.23611445858986, 5.463692421410598,
4.202211038721232, 4.021101140154497, 4.350459920766134, 3.735612931504699,
4.800943932308244, 4.590056219717639, 4.713003149108836, 4.594269718133255,
4.634597937023602, 4.601556818457896, 4.386488863111066, 5.356895474892732,
4.670693053854602, 4.48882605761612, 3.9611383644638463, 4.643217705058292,
4.746604773966675, 5.131045482645882], K Nearest Labels: [0, 0, 1]
Distances: [2.7535473537367934, 2.524854569440189, 2.930852190823815, 3.509
5417847012333, 3.5844992554994652, 3.0813894401322535, 2.92622656267674, 3.
340625963233802, 2.8050997194824117, 1.9823698840418302, 3.150248345608918,
3.0956296550749656, 2.8511802563304935, 4.194895515875624, 4.15087824674812
8, 3.5845231369604327, 3.6035353056846233, 3.2525578161090833, 4.1346993245
34094, 2.655836584046117, 2.304785170150264, 3.119082730655238, 2.215797266
3348695, 2.594949870375002, 2.8865809508163127, 5.34160819493071, 2.6844566
532583003, 2.6185400386734488, 3.4010309310179303, 1.9871344806786844, 3.64
639130577713, 2.836576534138099, 2.6462826207492562, 4.2488988202541345, 2.
9651322749469187, 1.9479176869985948, 4.182970350758417, 5.334542709516934,
2.883864164657799, 4.614240955562119, 3.9557735619831065, 4.45493635993485,
4.003449649060572, 3.8754871449810246, 4.164249678047894, 2.64640008950913
6, 5.084197518365381, 5.34435988813855, 3.474706541850108, 3.26107624203046
78, 4.7992239500058, 5.447932820581936, 4.504039964289637, 4.74098590587636
4, 4.815820341252958, 4.925747792505932, 5.160345659827271, 3.4376159032550
74, 3.4941325322290586, 5.072982366796398, 5.361913763936563, 3.27345552939
1055, 2.489894267517744, 4.263585064097513, 3.4257511250397097, 4.093579802
718254, 3.3054835335264703, 3.9360393547329955, 3.139309257094015, 5.083391
956769604, 3.722046269601386, 4.604506526848791, 3.2251800187669697, 3.4973
5308208552, 4.376978826079402, 3.5679121142695833, 5.7016607359887, 4.49593
4127769891, 4.24165381112866, 5.804526653885506, 3.857878655841777, 3.63185
51928913787, 5.1785754105100725, 3.9144954094920856, 2.9513743657913905, 6.
500282263979645, 5.34516021135394, 4.677436315372177, 4.442495190150538, 3.
3998356418177016, 3.2597383682711527, 5.890629396407238, 4.024554044477563,
4.835680652985337, 4.93593713149233, 5.2488622865979435, 5.76359514652602,
5.2625225279186365, 5.295123832787884, 5.631623940325833, 6.70861509207267
8, 7.005453496190997, 5.692014221347258, 5.353465526042335, 5.6439010890814
245, 5.055887996677054, 6.130353903284387, 5.37820784340399, 5.070612009521
0725, 5.143776891038851, 7.110073944172489, 6.127328753963377, 5.3236300373
8462, 5.746129020549983, 5.973575836589025, 5.799307663738344, 5.5128227556
15009, 5.775408692368153, 5.343740157257571, 6.411344122923674, 5.711859360
492862, 6.468921745338113, 6.325934847689246, 5.6931922378320285, 5.5707188

68322019, 5.335365107566018, 5.655994642103639, 5.121919975990441, 5.760394230425054, 6.184067962025832, 5.813504780909801, 5.653380774823931, 5.489161180561068, 6.127877106044262, 5.597156051467005, 6.241050187699879, 5.56341760311818, 6.397125605955766, 5.364059761190263, 5.789551479349521, 5.4072640455513845, 6.557636603512074], K Nearest Labels: [0, 0, 0]
Distances: [3.3801860081707824, 3.7175320428866048, 3.6992321789516893, 3.615430355135219, 3.1641556797327812, 3.3208588808648067, 3.0974443077215628, 2.3293905378221615, 3.523221180494487, 3.3213369953741827, 3.5981551831940863, 3.3711774584191754, 3.377474685944866, 5.019270341727826, 4.9548451429838325, 3.295899002200513, 3.0591967146197434, 3.24073297461599, 4.203155290939062, 2.30128418033471, 3.4452819404810544, 2.7455845356927076, 2.921170348729297, 3.349816270832633, 3.159590638248083, 4.840023750474981, 2.9102229231464016, 3.3424727502576483, 3.1801010369963905, 3.135187264298385, 3.958000556741675, 3.371416720455953, 3.3645584017646515, 3.795031615452091, 2.8199368212128557, 2.8163879465428145, 4.400574321659491, 5.413853107862826, 4.555267745635853, 5.856265831960944, 5.670527436088509, 4.782257128384206, 5.943602536201021, 3.923080579035281, 5.891944357098187, 4.08227699208018, 5.788341753680173, 5.00293988535817, 5.297295746478934, 4.698010527027845, 5.611321702159404, 5.896860121420191, 5.135161173258862, 5.637021592636764, 5.718973550471772, 5.71717346030254, 5.855964645604064, 4.708964509615546, 4.933277120406229, 6.369801068331065, 5.553145295534957, 5.266104788295977, 4.860471982294887, 5.587166888339899, 5.031466598980513, 5.334262790985275, 3.8245263456470004, 5.491619598212468, 4.501087291299904, 5.470816754205881, 5.041739280219372, 5.246287438873288, 5.317135763490147, 5.143684373425594, 6.213346973866698, 4.3903744866530685, 5.489887641863874, 5.813838765525563, 5.000266272611518, 7.17794792492156, 5.391190761685261, 4.765159972821774, 5.3307562801761925, 4.83954397461572, 4.363630144018082, 6.6656234611213065, 4.694252733759278, 4.264859383228332, 5.354795463193353, 4.604873367235028, 4.7260022063869505, 6.118350190778338, 5.1483261607781365, 4.607945498220539, 5.264255040718802, 4.8620990507872985, 5.517981452122565, 4.7354519699362445, 5.958622904196102, 5.6616837494921235, 5.827972651611287, 5.828311620046233, 5.075813119516575, 4.610202375249798, 4.906919104840942, 4.467367724318956, 4.982507369670539, 4.101100801821252, 4.734164423396522, 4.665438772441624, 6.04287574676706, 5.106645002549394, 4.792505326660964, 5.054034833423182, 5.2137209905369355, 5.61044790739851, 5.3410154922241215, 5.65891010484712, 5.9752836860153655, 5.476995977669511, 4.9989258492644835, 5.82647677094242, 6.31221534517951, 5.922372939813689, 5.202295823625655, 4.233335655327233, 4.9208868404250445, 4.527612882104055, 5.218476188885194, 5.254356640801421, 4.876021680481638, 5.255818424157019, 4.783009886421796, 4.548634025201216, 5.448767285865637, 6.122341531723552, 4.956049612285317, 4.826334668836098, 4.393317466235393, 4.937971539724147, 5.099288780893079, 5.269171743223631], K Nearest Labels: [0, 0, 0]
Distances: [2.7221346119406276, 3.28998062333012, 2.882279473239306, 2.915243612528452, 3.840556687114449, 2.6535458765463957, 2.402367999129223, 3.1969372877513464, 2.3414630364674727, 2.508666617901054, 2.417098456973438, 3.1848435035716953, 2.7823598351667114, 3.2878495468494076, 3.245807169660038, 3.46198465363913, 3.291566774577031, 3.4466480907653074, 3.6190184723398517, 2.4582171749106645, 2.7308823354571747, 3.0273326342351274, 2.4655402197778726, 3.4925060750394166, 3.2533557953295387, 5.595809983426179, 3.019890498982981, 3.437613261102795, 3.174169915536034, 2.2845579053673277, 3.5702439486902473, 3.0355968400377487, 2.9495029492852, 4.415617357080497, 3.3655301883526647, 2.6901457430807167, 5.157563428860726, 5.840881172162524, 4.540552832924097, 6.0854080035052025, 5.33291016294501, 5.741494067554463, 5.565459938382681, 4.120760696714407, 5.633117362229305, 3.807498246541276, 6.128551359075738, 5.790060516745467, 5.168362979290408, 4.699670693784865, 5.91791250214501, 6.466270893258419, 5.751966931181364, 5.9351449864486545, 5.9595588148472105, 6.2233431229846286, 6.259475396771083, 4.350719869156167, 4.941167009903985, 6.039565697458521, 6.518693687986806, 4.683563176000728, 4.0736918947615095, 4.595402361504416, 4.854543402436154, 5.547110133428119, 4.597989162565559, 5.6193093358003186, 4.583776352292709, 6.145784786304274, 5.144484574906335, 5.7940970465456845, 5.114201302601071, 4.851559375638411, 5.400132933668511, 4.804992539308045, 6.404708043505931, 6.10019890119852, 5.6165691364079, 6.854179764579597, 5.586532022736306, 5.185375950176319, 6.02915848627989, 4.949822300654763, 4.552953140798391, 7.24252081

82176, 5.683864904476784, 4.4948032959582696, 4.892488540496339, 4.91133850
9117903, 4.874564732822128, 6.868698281127406, 5.421970094336587, 5.4470470
98978585, 6.2619098539350695, 6.126351480358496, 6.826524719385343, 6.02011
33404076606, 6.544836899856327, 6.652570731085017, 7.142490253013592, 7.190
882004029688, 6.1457007871807425, 6.026933715153595, 6.332072069942328, 5.8
13655729277452, 6.522536147199464, 5.26894734969778, 5.986697915836685, 5.8
51919675291324, 7.250972414605909, 6.527562976554449, 5.967099065753206, 6.
423955834680949, 6.627564416681982, 6.829004085842638, 6.4787904626615065,
6.386231363809652, 6.8258560510678965, 6.582604638158952, 5.92357610194765
2, 7.212664846707897, 6.6662129155233485, 6.3726790776576845, 6.34863424684
1048, 5.633321497940062, 6.307430268773047, 5.872661679007395, 6.3674018292
69564, 6.415522841528584, 6.121283544856549, 6.355932873193654, 6.039668573
10513, 6.229933430701726, 6.6937807896442765, 7.265738090953927, 6.00442875
2616467, 6.233272903034393, 5.7176909113163745, 6.257236906649115, 6.285378
830413899, 6.584973083096563], K Nearest Labels: [0, 0, 0]
Distances: [2.578817204921016, 2.679501574137466, 2.963813753893028, 2.7772
057829324366, 4.188197256328402, 2.5730731486680933, 2.4245352084870153, 3.
4452706350931313, 1.9729755708267918, 1.1641136694837708, 2.54154459174779
7, 2.8236586976760556, 2.514791501002677, 3.521637649526646, 3.283705785200
327, 3.473306364380311, 3.4555078493588613, 3.324731407654552, 3.4938189049
769615, 2.69630893992048, 2.231129139425425, 3.6186855726456773, 2.30173247
41040586, 3.099316548231304, 3.205750411470178, 5.941567562923237, 2.788029
4635738303, 2.8953364714106917, 3.541644524013345, 1.7317813508669038, 3.49
73054999662985, 2.4934938596122675, 3.0030233552818815, 4.627413567316268,
3.2914082271884157, 2.19430462826592, 4.674854369528629, 5.843043104507665,
3.6748469566203283, 5.511701241033067, 4.321544374993067, 5.60728067727942
8, 4.8654860617259565, 4.728997162698349, 4.946585733719057, 3.220732405068
7434, 5.838591205667525, 6.045443848548886, 4.2857807527545, 4.076493907751
784, 5.660484144576605, 6.326601990292088, 5.520209945401895, 5.55936271430
7115, 5.698464640380039, 5.858868318459645, 5.932135881273721, 4.2242593253
11979, 4.3851656185622145, 5.8173963902963814, 6.2483041588109, 3.959369875
955202, 2.9202262014216758, 4.908450306057253, 4.2556475509213865, 4.842376
742606469, 4.353897413871284, 4.979698636109231, 3.997852907237801, 6.09908
0252512434, 4.552362318554405, 5.399235112743812, 4.292633519593664, 4.3409
84441037158, 5.181997822452875, 4.410201258572109, 6.607429583047277, 5.478
989343762591, 5.169611156913733, 6.703761755269582, 4.884295695121634, 4.70
60251674352145, 5.862702422833783, 4.933001483275504, 4.118951444643225, 7.
150740448318839, 6.225451095690317, 5.203189081056577, 5.040070174138661,
4.415224493925851, 4.098807819150914, 6.820951767598577, 4.952014844625545,
5.7075775692502875, 5.576437844713442, 5.824242705948252, 6.35604624357681
7, 5.843898604247183, 6.0403394200504925, 6.383001886120829, 7.476024803782
005, 7.7934602160120905, 6.2893108492570535, 6.1748613195908915, 6.40003772
5719253, 5.579733776518855, 6.756743796598427, 5.926306038465585, 5.7516664
12493638, 5.8605634706138385, 7.504655227120807, 6.695763418686858, 5.79964
566543315, 6.236833907364512, 6.352667366824705, 6.225120831197853, 6.03187
3477643969, 6.237230964770111, 6.109077693547315, 6.977844862479918, 6.0270
30328283228, 7.221695805993485, 6.347518293437103, 5.914436769601733, 6.277
872104539233, 5.89844323161598, 6.489025587460878, 5.825023296960991, 6.067
68711299022, 6.6807445971827875, 6.199014689168057, 6.088866549427715, 5.88
9640930134552, 6.524026971934588, 6.4113806113636, 6.7676405758610665, 5.75
0496219550724, 6.821679897709994, 5.883409749545934, 6.276333232540005, 6.0
18248658692429, 6.897773499569467], K Nearest Labels: [0, 0, 0]
Distances: [2.615408638652882, 3.592957904089857, 1.932297324662609, 3.0280
742832458483, 3.0070898151999934, 2.180980632505536, 2.2313062161335897, 2.
9444420757271708, 2.159227912389695, 2.1793097677243516, 2.051124298131214,
2.2861174837403166, 1.9973947680041682, 3.0746028780248884, 3.1431177023346
453, 2.5686831622392843, 2.0200018739078622, 2.015465290676528, 3.008701261
1463972, 2.889272884461447, 2.6851247508421383, 3.0758805064600603, 2.57645
7983668688, 2.9976434787994126, 2.7580449987044644, 4.561494158031314, 2.59
78976081633847, 2.9024314426094295, 2.4514489172434155, 2.118388075906825,
2.013128948056616, 2.035895182356698, 1.9149376569450915, 3.52662605962300
6, 2.290405547892813, 1.8651944132913763, 4.287985810470325, 5.111355573917
704, 4.0345788149719795, 5.410228763407389, 4.7045792123110495, 5.243158615
113526, 4.636036203071176, 3.938500790955639, 5.066702814304866, 3.14163159

69361572, 5.014267626379385, 4.994038110879716, 4.26490352389155, 3.9798447
89932204, 4.764619560675739, 5.468409764597854, 4.855801671153098, 5.150873
436221172, 5.001601775051133, 5.033756852158469, 5.0821985075694505, 4.2900
50943918579, 4.707370242132583, 5.271680588507488, 5.612845942162523, 4.245
281266023569, 3.60487780151978, 4.354727762727886, 4.606859401697925, 4.851
305421656674, 4.24963838918649, 5.082608991728616, 4.157568271409693, 5.508
025789495419, 4.441189224472539, 4.641016359920784, 4.469431243390444, 4.02
7924925729292, 5.4401085431230225, 4.519669187242464, 5.487402737055911, 4.
962213078507438, 4.889374276181715, 6.072663825317511, 5.029427901816105,
4.342235027619798, 5.818903716754477, 4.834474269274022, 4.240249675214962,
6.4784682153392925, 5.305015926108873, 5.137983938553698, 5.14979311708339
3, 4.5754785332622925, 4.128132237375184, 5.662393206954036, 4.460577898895
417, 5.187151085976231, 5.229091744171312, 5.278197712848181, 5.68563775534
611, 5.332965055957117, 5.40557083278502, 5.658760498802571, 6.534799791028
694, 6.621174036933312, 5.5029195005701945, 5.138117158932251, 5.4678280171
593805, 5.088480814888205, 5.672266976051692, 5.084918565012777, 5.37263554
542779, 5.155417907070992, 6.911341107113664, 5.979873080264105, 5.02117815
3324976, 5.541808901773301, 5.527560245687233, 5.7067870455129635, 5.113390
491469914, 5.370950464964221, 5.514434236394113, 5.962189868165451, 5.22282
6390048604, 6.0100283165993105, 5.205949474995963, 4.908188977775481, 5.662
704595533816, 4.7918793427611845, 5.380511096067294, 5.176716315576452, 5.2
69066872202475, 5.715794169365098, 4.946634911077412, 5.470546304497129, 4.
613468978209562, 5.534551031118898, 5.936870410567089, 6.279851457547261,
4.89143908542532, 5.8972135603017914, 4.765064450619949, 5.500929759137813,
5.085504845717036, 5.664933860137763], K Nearest Labels: [0, 0, 0]
Distances: [2.620939428589678, 3.5123370971328067, 2.7729534873302693, 2.51
21693159457936, 3.998342612688796, 1.7258169907769914, 2.6085920437871586,
3.04175486396729, 2.568117651280497, 1.849402739770546, 2.0222261543925093,
2.7413027631826776, 2.354036205826212, 3.3832256887696324, 2.74291939235537
36, 2.325271772995486, 2.5087051774197926, 2.2574924878347753, 1.9271495803
156922, 3.3089666969299896, 2.7330736140267926, 4.001794820506739, 2.958965
1833299353, 3.5386333700052135, 3.6322214402239563, 5.427567552452278, 2.99
29545065345464, 3.325543332987279, 3.209490137009592, 2.6905092280590432,
2.8185114807663205, 1.7139646505730513, 2.8510444883314694, 3.5819702238542
384, 3.113161831436254, 2.612307209438809, 5.226353836263266, 5.58046021922
7121, 4.589877733203001, 5.920507456363485, 5.162125167532375, 5.9501700290
46014, 5.1647026286416695, 5.019833095952925, 5.667948776692468, 3.92222129
4748176, 5.983845725242724, 6.0275645350845055, 5.241898273529044, 4.754461
089278029, 5.765599340104945, 6.324562232926474, 5.739010042538759, 6.07719
3809714185, 6.008051932653562, 6.003812683382048, 6.118006559542824, 5.2750
75429945854, 5.303406184643231, 5.777358990810221, 6.500547796078231, 4.910
787230009822, 3.9694659422717784, 5.323782658184854, 4.934961608390092, 5.6
18996822754993, 5.155604918419122, 5.888204682750372, 4.834541624163385, 6.
376167162153778, 5.231886965068247, 5.714456189219485, 5.34031052317885, 4.
972256747139176, 6.221818718376075, 5.483190566783643, 6.198616339784518,
5.795772526283205, 5.693776362039116, 6.74238776232752, 5.8181555371347615,
5.3040056245189895, 6.59022384912988, 5.818276309812059, 4.939987713216133,
6.80707873125037, 6.470370102265973, 6.15962099267428, 6.14751307589424, 5.
33871777960965, 4.989347826954654, 6.714886936769645, 5.612460937078387, 6.
2140674762339145, 5.930822093303844, 6.087793591445978, 6.5236210400113, 6.
161050447419094, 6.134483533653089, 6.193235596249352, 7.463184644457284,
7.577486884985477, 6.292801149565235, 6.037096880284743, 6.367453759248164,
5.794080280265223, 6.650177625962079, 6.073171051468307, 5.742877770459107,
6.11099150873802, 7.8390078238216665, 6.698459379500511, 5.755235303139253,
6.070228100004583, 6.210539013604174, 6.135003547235527, 6.059483898999749,
5.864587318540808, 6.071560686586339, 6.732545314514022, 6.007813572121234
5, 6.723673732974129, 5.71855168235811, 5.494285498332449, 6.35317957263485
14, 5.6003964232814525, 6.20664305930002, 5.965187399119337, 5.856625721694
85, 6.608423346047153, 5.499549630320264, 5.870947896813631, 5.443267637122
033, 6.2921216447015835, 6.657480284725285, 6.697484945750315, 5.5274548965
49616, 6.6236872470630646, 5.667163830538082, 5.866245657239379, 5.52445076
6675811, 6.496441998298273], K Nearest Labels: [0, 0, 0]
Distances: [3.979096143824973, 3.4256229665919498, 3.3745826551115106, 4.21
6715906244164, 5.515911750358534, 3.657298705550216, 3.4581713880171567, 5.

001803376665645, 3.163938478893106, 2.851660207569495, 3.1186938430933573, 3.635901115490833, 3.086752109352361, 3.479406550689621, 2.909598246368153, 4.343944106789634, 4.755476994019545, 4.636664461857913, 4.126770639794725, 4.089503614687983, 3.857124789757698, 4.4939121043335115, 3.756136378087654 7, 4.1241447772874835, 4.602807540099056, 7.13687551241068, 4.0675581390079 2, 3.7560828285957366, 4.889417909009965, 3.0829892180986214, 4.35259251903 3681, 3.354108672242943, 3.8364265055556115, 5.919153618255091, 4.488821592 2989385, 3.801941134455124, 5.981233970970678, 7.165383695080845, 4.6481254 51479319, 5.547746383986972, 4.555888391207148, 6.335396605418045, 4.737906 267548062, 5.735846638813919, 5.352755208691955, 3.774610999771971, 6.37243 3235472765, 6.774815278150062, 4.679692770777884, 4.8536437430694495, 6.082 759691344521, 6.958545288114429, 6.112745834436905, 6.2888174892125495, 5.9 52975853306778, 6.333701871668896, 6.421928327334005, 4.694525654576795, 5. 020602409447111, 6.04941009649227, 6.9007626505028306, 4.129785952464071, 3.677326879539609, 4.7895477195974285, 4.489594829805428, 5.31429055903612 2, 5.720386683104306, 5.574463295427361, 4.860583696097779, 7.0633657796197 39, 5.008353297043142, 6.124174578523034, 4.96180969805499, 4.7729200674363 37, 5.074934538978961, 5.576749331632339, 7.1924176001156885, 6.00079866537 1496, 6.346144250028572, 6.611159575913081, 5.523867125658766, 5.7242076379 97201, 6.533704115418551, 5.365078654206273, 4.9986773053419675, 8.32491816 1780456, 7.354404985264619, 6.170044709122548, 5.461951742785743, 5.5272093 720347115, 5.316135533968473, 7.687509283129767, 5.940116580914286, 6.47061 25183333105, 6.375235050431529, 6.610488829225649, 7.22964729007928, 6.6509 88591910522, 6.523586379093253, 6.974146184455474, 8.050116999285542, 8.604 02252399504, 7.1036225249890395, 7.350690693966307, 7.415172453812233, 6.59 624269863003, 7.920194555998267, 6.86109276220161, 6.225754836230515, 6.698 723696732696, 8.274572597453352, 7.537020898023913, 6.696998333521818, 7.04 46402647365085, 7.380329230622648, 6.998787060491325, 7.155682800428864, 6. 685774753587928, 6.706114012774874, 7.61432535127052, 6.775227855079539, 8. 116241209374698, 7.186506911734756, 6.583881185597341, 7.072873442201164, 6.91175035297545, 7.438431512864616, 6.628571399070491, 6.888208815497506, 7.475934225812515, 6.925204855401437, 6.579278913453839, 6.805938469013034, 7.641166634702288, 7.06926637142648, 7.442150002487522, 6.647450848716904, 7.651125497496826, 6.764153343049794, 6.972392361651269, 6.785328108961922, 7.980699806883958], K Nearest Labels: [0, 0, 0]

Distances: [2.926648777232473, 3.421333918496605, 2.0476420944526037, 3.458 2142875382025, 3.6918900579933736, 2.728198583627539, 1.8536256528372514, 2.9673927713355805, 2.728548073082365, 2.267994091761179, 1.910166608796349 8, 2.039066253515431, 1.5856140357955926, 3.346096437045352, 3.108682736538 2717, 2.414796175463182, 2.7794042834990376, 2.947122833914144, 3.084825925 076824, 3.0667854825924197, 3.2593017670891147, 3.1285802430432397, 2.16941 5834079196, 2.4336045746587667, 2.410083209664118, 4.873160966427344, 2.475 1021350290365, 2.992171758334647, 2.5089268103989792, 2.1755108146000603, 2.247744322092877, 2.1422906284476704, 2.4849059638243327, 4.06790583872845 8, 2.3625645237888198, 2.173731618207775, 4.747893926615699, 5.468996401091 252, 4.112216425366412, 5.751505319740746, 5.070958107823666, 5.81671724182 9533, 5.3821697128967925, 4.6815412722426, 5.134379907411609, 3.12103825562 7486, 4.967811201664365, 6.025770069875602, 4.273962819769152, 4.0764070536 85772, 5.111318421476738, 5.38113077716732, 5.119994292503149, 5.2264184943 31249, 5.388636238855505, 5.404808078451228, 5.7327006963040175, 4.45254608 8730733, 4.834444391344165, 6.019920574465732, 5.847070705657368, 4.4731109 80428127, 4.064827596996409, 4.811391936378233, 4.847783721270922, 5.088776 547006392, 4.729741061809444, 5.713598650391352, 4.347290360904046, 6.20982 188569471, 4.625609588552169, 5.280186137219045, 5.1905485863594745, 3.9657 47681381238, 6.310705345834387, 5.052804052563408, 5.714824993134023, 5.273 718520449582, 5.215703350377557, 6.141921313603948, 5.241899279021249, 4.93 5398223709399, 6.512103076610695, 5.281639225401122, 4.585800943464451, 6.8 43594279353897, 5.918761818805625, 5.946953651472402, 5.4736658308469535, 5.073386315383649, 4.9567483989594665, 6.283061240977659, 5.13773738311091 5, 5.7471181220179135, 5.914066318044567, 5.963663668858377, 6.401754131999 981, 6.045710174959781, 6.266720159038762, 6.632641389646627, 7.23029483613 4152, 7.552961470929737, 6.469827985026369, 6.007468983266572, 6.0693029004 18115, 5.584116612463817, 6.335615360155648, 5.982781762350476, 6.112979205 715242, 6.176488118782091, 7.7174787276908665, 6.845515254964561, 6.1503640

71963278, 6.658511607561851, 6.5353998001354885, 6.6604229475676116, 6.17302727289839, 6.664018254484865, 6.601455857046069, 7.1634453149315345, 6.404078377047472, 6.969196209856378, 6.525065499580151, 6.11122078808843, 6.724902145902958, 5.68669275354576, 6.267400989949016, 6.012770232428038, 6.214312931802581, 6.7133093093632015, 6.0326815072658855, 6.249242402786141, 5.5511917344152515, 6.367873246220628, 6.596086882250264, 7.120196913230732, 5.898710623274635, 6.911740041852843, 5.890762877762443, 6.704171690085463, 6.315572098690333, 6.859859523381931], K Nearest Labels: [0, 0, 0]
Distances: [2.697219176627853, 3.2704082751967034, 3.2497776373978926, 1.882835194390765, 4.075278544701685, 1.6035102891541326, 3.004628153597764, 3.2235765066915847, 2.8850339869071124, 2.2568273072500826, 2.8971360786903064, 3.6786366419461007, 3.033245487829308, 3.342311705997336, 2.830377410346971, 2.8005448093523366, 3.105894526276989, 2.8299978698031634, 2.4592886378827394, 3.1143079740470463, 2.7062124580876032, 4.294605930174628, 3.1356331968392257, 3.78863394183053, 3.9496364817535112, 5.633550598469925, 2.802659433300406, 3.8865870708440515, 3.2876686017950174, 3.129667709203498, 3.5867742136018688, 2.7825824077187624, 3.475762791180078, 3.7322450450422884, 3.6144255052189096, 3.24563555077679, 6.0377354026017525, 5.972908425280917, 4.4929030663068295, 6.533954785252789, 5.879863768070377, 6.310009430982864, 5.6924755898568415, 5.307900070079593, 6.048598710869166, 4.610579500305022, 6.64756445849664, 6.840603402040575, 5.412254072295608, 5.129563132781108, 6.5575916225675615, 7.0070798887873735, 6.24360364150862, 6.59023239549414, 6.587318161301797, 6.796830165830344, 6.913422900019398, 5.480383445466653, 5.188704914621275, 6.107147761434791, 6.918571978469309, 5.167953179638497, 3.8356953586970706, 5.567480948671883, 5.526285890116008, 6.377079806572349, 5.209841564224709, 6.173633024196919, 5.430561646597152, 6.90549723943879, 5.933827431565283, 6.589082379239004, 5.691560644765012, 4.986099702134176, 6.3434885112831, 5.667044415712527, 6.5826729529545975, 6.063296454278856, 5.859936512472201, 7.22563132994368, 6.324371650467734, 5.869623651479759, 6.979666892430518, 6.23507542093457, 4.844455059894021, 6.81645967036328, 6.855174683272906, 6.377906682316425, 6.210260216509786, 5.509542076223905, 5.163035045260699, 7.29303119869878, 6.140774867183912, 6.60077858949653, 6.447740808317089, 6.811127981498937, 7.435505990207953, 6.80202512546356, 6.626339189270465, 6.911573119589825, 8.026593895873136, 8.174944446020639, 7.012951819376464, 6.509324334195839, 6.899653572509978, 6.551402621756722, 7.278534422493506, 6.591696698770034, 6.596859432154721, 6.8541714151018365, 8.552590305904198, 7.352177528954219, 6.540780685396749, 6.995517324776533, 7.115746514174923, 7.0514681373353625, 6.679208716670219, 6.741075956778272, 6.954030580505695, 7.539787492733816, 6.786415331864891, 7.546500372299439, 6.610877618745375, 6.294758109722991, 6.824819199401526, 6.249811578904119, 6.869502936175947, 6.610374050690772, 6.993330665211448, 7.579103354027123, 6.613421349736416, 6.863162703740334, 6.550405005419222, 6.977930255335321, 7.294420260064675, 7.525154103750836, 6.456497498467628, 7.324480592462516, 6.551684403451439, 6.808733824533097, 6.424040703169442, 7.252703655479877], K Nearest Labels: [0, 0, 0]
Distances: [2.714995764068673, 3.588921763259348, 2.7215328451056338, 2.8398593387391466, 2.8154342488581667, 1.6050092579850366, 2.5515235058794516, 1.7920995611296777, 3.188169189363529, 2.905103392607964, 2.6494845720471294, 2.7224482250716733, 2.3841986878263204, 3.777498292125006, 3.501607688857762, 1.2255104571302595, 1.5391841375286734, 1.475354647808176, 2.313328589472626, 3.0306920464356333, 3.1768319873828457, 3.581463731511481, 2.8864001315785695, 3.0354202816186047, 3.1598771363717297, 4.028677050893948, 2.220291662021257, 3.2233957342437405, 2.1342091251327697, 3.0906879309410904, 2.532684081648733, 2.2007827417241472, 2.4510210984021517, 1.9560414816532412, 2.0196747034908347, 2.798440253318579, 5.219820479840643, 5.09211607154641, 4.433047529053499, 5.950188752653756, 5.8569496815171735, 5.345066581902378, 5.26124769200013, 4.6555285660377415, 5.852321809726908, 4.19777732322835, 5.480877402049668, 5.761722710340031, 5.077695237982026, 4.5831292747539125, 5.417047500113541, 5.734431395544805, 5.161845463976867, 5.795883369856708, 5.627390564259255, 5.638258949618292, 5.8503610933492, 5.349141480651753, 5.193734657911572, 5.548380384153338, 5.639151765689389, 5.237353973423991, 4.595292795083096, 5.446720081080257, 5.350110703504043, 5.7565400287670245, 4.6955853649077355, 5.927662425174402, 5.041484348126013, 6.036013924215118, 5.385181062614428, 5.5615551937862415, 5.623983258408945, 4.6

17294553917913, 6.777325124139712, 5.412391464198067, 5.0279883804337295, 5.312988202006102, 5.242613911421237, 6.558544056951125, 5.892653997746272, 5.136640370631884, 6.50248503549421, 5.766885890918232, 4.715061897311815, 6.28826236342659, 5.793072895587204, 6.322222159395355, 6.4051574142702545, 5.348979317196544, 5.147914886561657, 6.040315976950651, 5.530689412429762, 5.799325657077664, 5.473921590943392, 5.746365846731902, 6.255624565543538, 5.8121155805198885, 5.734500767447881, 5.846260463790836, 6.66808556591556, 5.6809972076774282, 5.935054957323707, 5.108367607981321, 5.429545743419817, 5.387150420394117, 5.722596528849699, 5.542352809557029, 5.650122401043442, 5.716691252241683, 7.596836954837416, 6.328083946932863, 5.592564849641386, 6.037481863538846, 6.012629362426033, 6.243389430117132, 5.635999909799252, 5.929943970036039, 6.017343476011113, 6.472429846893047, 6.002200312946011, 6.042235222288779, 5.988893834407374, 5.6299862435493635, 6.055822309482931, 4.740413000546927, 5.364818591418619, 5.436278480505581, 5.926119945621845, 6.403728697772416, 5.264873657589834, 5.915727775708783, 5.062549800480847, 5.727946122139964, 6.242782448147581, 6.663513647598705, 5.442491537594223, 6.20498573979792, 5.257596637134167, 5.773432190887706, 5.206121057358434, 6.048824454510848], K Nearest Labels: [0, 0, 0]
Distances: [2.0981359050457886, 2.450655193730204, 3.2566755831859453, 3.117625799210092, 3.523220598182946, 2.5105318502859744, 2.4635303580441574, 2.1944852105870227, 2.516672982012929, 1.8581256116272327, 2.8131754388170833, 2.4202964240851315, 2.6356675235066387, 4.368870786718519, 4.01646014535947, 2.73246652142399, 2.7732429626036894, 2.7927284132067087, 3.515771158674654, 1.9758648428657566, 1.9045271172277807, 3.3107082457042054, 2.1527435875967913, 2.6772765031452987, 2.9718467222795115, 5.227548052037514, 2.617914983300356, 2.4798726260290587, 3.2078558859179873, 2.0664176358466104, 3.5541402218786877, 2.287686212412215, 2.729745589166074, 3.6199359903234654, 2.29208537223729, 2.1614731009941273, 4.309178842592233, 5.224371857436802, 3.5706624295496097, 5.028292700015569, 4.409704165901448, 4.711269774435826, 4.257173333544643, 4.688308923190587, 5.008578892184836, 3.320538214721012, 5.600661269377274, 5.82946876721061, 4.22320036292492, 3.6966677403954016, 5.3078403984223606, 5.908364090937171, 5.179563871876311, 5.572967870225543, 5.484361986179111, 5.491124443793209, 5.7108139269787275, 4.426334115986057, 4.245181688940167, 5.120911863575595, 5.003513400987757, 4.268838321596465, 3.7673520658307202, 5.454071429687727, 4.098369091939202, 4.504612916528153, 3.997690407511186, 4.984828554954421, 4.006997099389959, 5.842232524230342, 4.516968057589869, 5.128657624323612, 4.492116274337401, 4.464016619926558, 5.756727621187114, 4.340339094371259, 5.8536736057291945, 5.250963931310126, 4.9962588976443225, 6.76330877805893, 4.767590040820421, 4.19588294720772, 5.607069653874205, 4.911843190878337, 4.131517597056918, 6.907779038012274, 5.838000296713552, 5.522155474101607, 5.672956750238572, 4.5106153623325556, 4.402059544374756, 6.520271442140587, 4.96100829244062, 5.5360474001506015, 4.367171906972112, 4.894622413743496, 5.529506488403322, 4.961426612789321, 5.706962925664647, 5.807466376040171, 6.815833309384801, 7.238233723982544, 5.807646082902828, 5.454947171043286, 5.582334976927569, 4.8188958632167695, 5.921263331761409, 5.464517224523076, 4.811494229034394, 5.158780325288571, 7.033023242116097, 6.200961514244432, 5.351996737321108, 5.4194803935553235, 5.361256629478319, 5.445729753117773, 5.283220451726018, 5.936200547098913, 5.496321791243207, 6.614240622394225, 5.769734339845843, 6.600266222600071, 6.433521218520254, 5.947912404157694, 5.933433158270231, 4.978992407704578, 5.656243073183997, 4.898025111857197, 5.5211760658558084, 6.213488810042829, 5.448283524369375, 5.559291223440158, 5.124411428988916, 5.690855736508485, 5.622762390998812, 6.233214367235983, 5.272022251033735, 6.2869209018309515, 5.230867227218442, 5.425888622845226, 5.122483850659587, 6.454678229744029], K Nearest Labels: [0, 0, 0]
Distances: [2.418171508417132, 4.047656258297852, 2.0260687496366736, 2.7573014745170403, 2.9943518772548567, 2.6740611636780947, 3.0384895031705312, 2.9368167838372004, 3.318327190069843, 2.4938482999125666, 2.337269946404505, 3.122750772338143, 2.9494940410611803, 4.383969476543531, 3.748317858995623, 2.8104896847599967, 2.1387652022059154, 2.4497558635094507, 3.407755692227592, 2.7638514144766892, 2.4847145126584866, 3.151197449718005, 2.9115267120709203, 3.120230117644079, 2.987453144426125, 4.347560793846541, 3.1196331893321374, 3.403284992758505, 2.8763024346352277, 2.7456075973975365, 2.1165623131175666, 1.9327534917086215, 2.9957397155860996, 3.6673317548558

075, 2.4653186485379206, 1.983741425892454, 4.675892533816412, 4.1054000535
03957, 3.3414256879201525, 5.865709374432746, 5.32892689147701, 5.498689033
367225, 4.550246445527371, 4.314942184393564, 5.430505027903106, 3.63792628
5386979, 5.429578174190377, 5.9020060714430365, 4.044577926182893, 4.289961
363506585, 5.287292480651462, 5.615602166342565, 5.276940557106765, 5.58482
7651254183, 5.774695087803466, 5.548292320122425, 5.960930735215166, 4.6076
52948094567, 4.566634968775337, 4.584406318455606, 4.948792157269547, 4.792
5589131888895, 3.743942129859728, 5.081611662798024, 4.906422707659363, 5.3
0426910991528, 4.271542265548405, 5.447820711832178, 4.50407104564092, 6.16
3425439012238, 5.000888794838583, 5.305203038461481, 4.8008292716899845, 3.
7779857127103487, 5.148551313899294, 4.76081631928149, 5.969992218647005,
5.21337895118872, 5.170477600341509, 6.5423055569245605, 5.177415926858552
5, 4.408916180399585, 6.581930748939057, 5.254466130059353, 4.0430655688334
94, 6.035332475623972, 5.402607848749087, 5.526603953062557, 5.078826512962
144, 4.860595742563616, 4.426084508210719, 5.8990033304226275, 4.7403136576
78617, 5.649548224446195, 5.1867141990523, 5.513506429424685, 5.85796108591
6901, 5.382095692364856, 6.168894482137456, 6.4027371912569375, 7.116102142
928228, 7.165693300659915, 6.410924621792455, 5.529379194832735, 5.98359672
5501219, 5.585845086845453, 6.221348467125156, 5.88711805989628, 5.43737505
1651576, 5.607173021614185, 7.655769613167448, 6.511119896324875, 5.5589834
10921326, 5.763969365528945, 5.408429187489379, 5.6307889376331985, 4.85393
429805522, 6.099382397719364, 5.940819868448328, 6.670628892093451, 5.99757
2337842638, 6.355989731385279, 5.551641066636889, 5.371537411840673, 6.1549
581819550125, 5.4574710680376395, 5.919596187728723, 5.605325643318288, 5.8
96257814911902, 6.523373250328177, 5.314242210535564, 6.022694624479719, 4.
869788436293247, 5.481223365055348, 6.309954295257076, 6.845173652223047,
5.594107977017225, 6.597535083466479, 5.213620854072069, 5.775524930453297,
5.4082955228159895, 6.274992169253137], K Nearest Labels: [0, 0, 0]
Distances: [1.564057275778681, 3.082417179367797, 2.9987165402105562, 2.316
035679427557, 3.465795478925868, 2.0494790365557147, 2.482445704515887, 2.5
89222026197811, 2.2454165475998673, 1.7427462742055573, 2.636310670512871,
3.0104387416141187, 2.895399921447491, 3.684471997755242, 3.366467903934488
7, 2.8771362740241186, 2.5679925692979393, 2.6149721357896247, 3.2214246196
98056, 2.278463863153248, 1.3277528209367664, 3.5702813285517734, 2.4418349
874155543, 3.2922611001207764, 3.207639380025622, 5.169317423862872, 2.8773
04037630355, 3.326294674123676, 2.9582722061183784, 2.1726573116636283, 3.3
228825903014645, 2.532322239064726, 2.8450661375624957, 3.5629971235473397,
2.8612500010494033, 2.345501378315538, 4.925737810342607, 5.22040742433128
5, 3.9929823381441336, 5.835823385596049, 4.992554417117814, 5.505428259008
031, 4.642443183899068, 4.687030203484859, 5.450980328502924, 3.87179202972
67554, 6.088097856158513, 6.120545787772964, 4.647742257587039, 4.245529721
643468, 5.8244715991526546, 6.405747724425858, 5.751920830458101, 6.0310303
79749668, 5.985227250314695, 6.015849331731541, 6.16673156472676, 4.7333507
05701905, 4.708680165462343, 5.137961938972492, 5.811631616468719, 4.648799
326777216, 3.7730062975181484, 5.290758387040513, 4.831980868478566, 5.3408
087622327445, 4.434472454855664, 5.503993975198758, 4.5975789278470645, 6.1
77368433491809, 5.142080117771091, 5.663420349031782, 4.798099159651497, 4.
629436581713627, 5.68358245011939, 4.850734325532049, 6.308540815094731, 5.
678286899275053, 5.383034913491854, 6.982586007599683, 5.4425358735052605,
4.747109800142573, 6.248941485953251, 5.443373979209147, 4.469673926175285,
6.788561236582681, 6.069259890633203, 5.633797805704314, 5.664167034986069,
4.918761431713814, 4.571844524621278, 6.7547367591481615, 5.27495530154099
7, 6.0280637764301925, 5.32955642176118, 5.776072722490073, 6.3691001071754
43, 5.811444081873168, 6.123452486448114, 6.326743086225837, 7.439163820965
922, 7.565275090143332, 6.254247265191742, 5.825152120201375, 6.14147440475
598, 5.609795317942301, 6.4294307065305265, 5.825677842499567, 5.6801444372
64513, 5.818392109427609, 7.621435377123675, 6.686984595598837, 5.732038509
551736, 6.01088269862612, 5.931704563988224, 6.04060044820885, 5.6146036248
02214, 6.092281085025229, 6.051859508532788, 6.874283024773832, 5.968389107
623521, 6.964970236813259, 5.9836371078707655, 5.752925312680722, 6.3042671
34712915, 5.434205632283645, 6.102549843760061, 5.656704038717513, 6.028421
383351908, 6.639831395216835, 5.755298038899401, 6.153220393791143, 5.52148
4099106744, 6.073498013327086, 6.437666371266818, 6.813413531077801, 5.5851
755147601985, 6.629312326807008, 5.63590169358313, 5.893119787547293, 5.536

626502940272, 6.521364248360239], K Nearest Labels: [0, 0, 0]
Distances: [3.1068077855592757, 3.089198230025933, 2.226286896709778, 2.9198592745448195, 2.8290535553303733, 1.9333663902149478, 2.428128069168318, 2.356400881748201, 3.025446834794907, 2.387309779849274, 2.5889097313641, 2.4646982336798544, 1.7743638399914239, 3.7072245523198304, 3.5058480140189734, 1.478027280694555, 2.1477770890222083, 1.852527351429802, 2.547346453526546, 2.6277318126229194, 3.3052388136664073, 3.038024007062351, 2.5411119062787564, 2.3491107872177994, 2.685877947857409, 4.2838644550781755, 1.3867639646823557, 2.743313812149912, 2.1748062032342403, 2.773273947989514, 2.3154096381669964, 1.9331477533877508, 2.4599042948747236, 3.0388391401935473, 1.85630814521519, 2.255234968035941, 4.7514189627978265, 5.305134976286003, 3.7098809365563827, 5.488147886997085, 5.325444912105644, 5.112195033897092, 5.364142605870454, 4.352337571696806, 5.25006732530725, 3.44234785761956, 4.974040542553941, 5.543795130963892, 4.285210625645661, 4.1521885239289205, 5.043513436458521, 5.333058694608805, 4.629408071740807, 5.194174425162608, 5.170473063413961, 5.268409612288161, 5.533525173570007, 4.627772559462457, 4.404092399747761, 5.967992939385317, 5.468533727972633, 4.519828994595426, 3.664773209842601, 4.967106033779247, 4.859137922175277, 5.280612551234169, 4.122592435669972, 5.327437499942566, 4.485417428729253, 5.824887401799434, 4.744530217446367, 5.158218690721993, 5.1049060371533805, 3.8061279572402875, 6.268600766193277, 4.682562344873526, 4.881454058970371, 4.689487770228134, 4.6184625785497255, 6.17770291345245, 5.280986880162931, 4.8094058587224815, 6.004446140734822, 5.210971215936078, 3.90842684793682, 6.00856041700233, 5.488615421200515, 5.731666881650895, 5.559533898700322, 4.619277693548805, 4.395804265625327, 5.733253703348115, 4.96846308735688, 5.176820053626828, 5.271587512740148, 5.361908555900559, 5.882337895582273, 5.3816670808570715, 5.51129175986848, 5.773487291592517, 6.409383897095742, 6.7374088412844095, 5.860230014918681, 5.083708153110974, 5.33115116382828, 5.136636144908762, 5.693102315688944, 5.395017582517359, 5.434151460202405, 5.60623615352053, 7.302051343501002, 6.033251604996845, 5.3883402566398955, 5.8820405712920945, 5.904704992425051, 5.965981802688288, 5.446857266823771, 5.9446301548860045, 5.94731969444804, 6.4300983876766535, 5.83084554595761, 6.055828159980234, 6.121919474121758, 5.522877761094353, 5.693417137378152, 4.904012811889525, 5.4551689106946855, 5.285366837441944, 5.781619630660855, 6.312840668447009, 5.369214039668626, 5.624999787509359, 5.074990392081684, 5.618741070100858, 5.90338988648604, 6.392489048255829, 5.365514907695325, 6.171534999255859, 5.199729102217341, 5.9108772420474525, 5.456124348753845, 6.106763621285465], K Nearest Labels: [0, 0, 0]
Distances: [2.7940377728191192, 3.516436601248767, 2.595767692668037, 1.7386627886335315, 3.83693844639828, 1.7671854938512825, 2.8234839244043513, 3.1061735123807113, 2.9065154567054265, 1.9976400793194586, 2.414855486387143, 3.142764278974414, 2.6230560866115735, 3.832412439748041, 3.021242298316184, 2.6311236090864223, 2.515598345941412, 2.600127841354408, 2.4789293213347996, 2.835684510833729, 2.8886396529883354, 3.9424694293276983, 3.0778917163251363, 3.399411552718827, 3.5894171676076394, 5.329682524383373, 2.555193452154078, 3.4000623337717344, 3.296738196889753, 2.928320176998965, 2.7232517896802046, 1.801724037097664, 3.482150028035827, 4.013079504374475, 3.002020586198672, 2.6699646412407674, 5.430228218434081, 5.44911429722167, 3.831133526196608, 6.384218682715844, 5.661668064668279, 6.190832407841118, 5.472956857786768, 5.316925512807281, 5.984512141319871, 4.1959775272502995, 6.223044538208989, 6.634796152175967, 4.677382612000707, 4.956352869447238, 6.216894502790708, 6.625781046573169, 5.931814813553339, 6.241055905024436, 6.3863889698985625, 6.443691350951758, 6.624511396809495, 5.3120978988313325, 4.987401486453938, 5.86221127380969, 6.102992557013608, 5.103573863737557, 3.594737876568125, 5.770144227444578, 5.426675837245452, 5.961689126325143, 4.922512407825182, 5.968180220486144, 5.165536360855792, 6.927744475886543, 5.6125998259166, 6.115366694330199, 5.499428502143873, 4.4237681456680304, 6.023255564221522, 5.290124801812473, 6.5613331312647665, 5.750093420701308, 5.640428180506863, 7.334683750026624, 5.932021173300978, 5.498755490014598, 6.836430244859778, 6.014630958056617, 4.530372342451513, 6.581735446613891, 6.513911866457784, 6.161974624364998, 5.782580927722582, 5.321667082975861, 4.789771103370376, 6.874468071792125, 5.651247428871325, 6.260859161241706, 5.702659343335692, 6.0857711583619425, 6.562040839766613, 6.013484520267299, 6.461248544012242, 6.792708959302539, 7.672110962695912,

7.9803928017898755, 6.913080201828765, 6.286081179800382, 6.60232601664781
1, 6.056222986659225, 6.937120808717271, 6.486003319408363, 6.0501297685349
99, 6.337339292448666, 8.126999944667519, 6.974474248937697, 6.060280130517
888, 6.387806846929572, 6.219052357122713, 6.225790231091519, 5.75472688239
4614, 6.558161810341617, 6.538977683821246, 7.3067807089977315, 6.471232824
791834, 7.119370306143266, 6.167215115158312, 5.84663416591031, 6.543697273
432653, 6.0753173309299715, 6.708336074112314, 6.179048656257682, 6.4566943
42415689, 7.2616771596299605, 6.134890004914251, 6.434785863861125, 5.79652
6995272947, 6.288864927650963, 6.854457644032209, 7.165695243254228, 5.9815
81991623767, 7.105312864480198, 6.005579657825913, 6.422762175136205, 6.065
443832402707, 6.904079533712842], K Nearest Labels: [0, 0, 0]
Distances: [7.992326298996219, 5.2638616381696846, 8.325583425946547, 8.931
275933940778, 8.064912745581477, 7.833899855481297, 7.1293147283593346, 7.5
648322156866525, 6.465306139641085, 6.891412886972261, 7.940209055781855,
6.2046041092794075, 6.635927858758959, 8.007860036703836, 8.68110258928818
5, 7.716547717326337, 8.409959459283494, 7.875439646443669, 8.6242965125674
7, 7.210115954002707, 7.379455925365253, 7.421714872791113, 6.7155347976549
57, 6.374693691019674, 7.142606934150984, 9.655480359638261, 6.904890055869
363, 5.29818629481603, 7.965779250878889, 6.270742847860218, 8.538320248635
197, 7.572947174003149, 6.419885008676466, 8.235671267595718, 6.94197915813
9643, 7.018394944788684, 5.85072384057384, 9.762618237629608, 6.43717785666
1433, 3.671967238848123, 3.640517007912612, 5.0671817674084965, 6.149026533
744851, 7.388697285116696, 4.9715038973252765, 5.543174933076767, 6.5173714
77269406, 6.925609233215685, 6.680697699544734, 5.071683664082872, 5.890202
207558357, 7.365602989665152, 6.137444520835391, 6.1765904682758945, 5.3829
93250377533, 6.162776558113673, 5.767473948495091, 5.818208135395937, 5.570
953666195603, 8.676290136477311, 7.399248603743817, 4.5557108769120145, 6.3
045718015047925, 7.119764188254642, 4.1664096751291755, 3.951245614067971,
6.358689273371671, 4.276069159051807, 5.157001161308078, 6.692826465092701,
5.142708372172136, 5.995161056743069, 5.193694348490734, 7.616259619466177,
7.856969544871321, 5.3608050326902115, 7.550859528730742, 6.04941554400902
8, 6.431636022473407, 6.969495339623782, 5.001744576498376, 5.8420464992938
23, 4.385409537161336, 5.345974592167076, 6.797157527613188, 11.21149606217
1108, 8.470499730190724, 7.557106226600117, 8.351777404464586, 5.8054990057
14354, 6.537995483134343, 8.539180258863295, 6.606007632537842, 6.565504882
4071365, 5.366643098311743, 5.8390745305764815, 6.442435437787749, 6.084822
044748475, 5.308081966390235, 5.801674278667652, 6.982165022029183, 8.36855
1451987802, 5.876271918693835, 6.982806286172047, 6.754111276591936, 5.7097
02769309083, 7.176378687714464, 6.449963226889275, 6.2501083544751035, 5.97
5950825041231, 6.7568860990498125, 7.28528045918243, 6.874843390096564, 7.3
23301777597662, 8.144468179633652, 7.662286715357709, 8.073763221761249, 7.
45132801992122, 5.892748127627414, 7.874532356155533, 7.285248838147116, 8.
337149632088598, 9.967969961378987, 8.673519110305211, 6.77564699635564, 6.
503600250350034, 7.002577515517529, 5.793751817436779, 6.774958086978255,
6.926535289767751, 8.094280353702173, 6.467848254056457, 7.929667158031986,
8.751295439548928, 5.517932889804855, 6.356987597492602, 7.116386510498936,
7.792666076631953, 7.29991878378856, 7.518940381831929, 7.25333783689652,
8.799157343389219], K Nearest Labels: [1, 1, 1]
Distances: [6.864269660995366, 5.2133559029891146, 6.702377065821172, 7.844
913039103784, 5.431692238589487, 6.374814898844968, 6.136843539465048, 5.75
6571919145853, 5.989344478619777, 6.314765790903273, 6.976857822525144, 5.2
07819685807504, 5.4610317134403275, 6.860966419395796, 7.813608937517415,
5.6131478402963895, 6.2501145685914, 5.45411514742063, 7.02925397607142, 6.
299947373195408, 6.5690158209530765, 6.001948756615818, 5.788502234264103,
5.062499475657115, 5.569700556130595, 6.364211663672736, 5.275195163105329,
4.714972251419049, 5.604216456946737, 5.797521950347684, 6.539825024177309,
6.402058341914225, 4.5444169113085096, 5.253911498287279, 4.95181548550075
8, 5.747388093057759, 4.8622787381009305, 7.803068250189689, 5.921013027593
183, 3.4643145695854414, 4.791343723568403, 3.3503330605798585, 5.646413833
822673, 5.4296957534605195, 4.628812890202397, 4.879271531735675, 4.2874223
57001358, 4.624513634759347, 5.857021918974848, 4.108920808128669, 3.678213
267499934, 4.894627348212558, 3.7799149388010287, 4.687687915925548, 3.3200
48896412436, 3.8442351303088422, 3.5698443361270944, 5.452741275250968, 5.1
64615885732165, 7.457226163282053, 5.909495042481549, 4.6190071377893, 5.93

4523238126164, 5.827544045871348, 4.705203911594331, 4.269608643926199, 4.922440118955369, 4.174028321083982, 4.820581475475516, 4.3930656018053345, 4.461496510863964, 4.19205566125203, 4.9252799962520335, 6.082903877863523, 8.043129824999793, 4.906475191388865, 3.6563457475373173, 3.80114423141889, 4.4122020259372965, 5.009375363465076, 4.8904766570668485, 4.550120292729665, 4.342337704603548, 5.025730753190704, 5.603520304976927, 8.299565836535063, 6.17209205287718, 7.157251868813905, 7.902389584190579, 4.908187997290459, 5.372366571076109, 5.4226577385677786, 5.111682456100572, 5.0822487195573816, 4.603174788564359, 4.8068914128672775, 5.168951459014047, 5.2707038441873495, 3.1300015610697276, 3.4617611726618494, 4.722652733040261, 5.5824865504262045, 3.9702920680614664, 3.9403198227545917, 3.9129042307733104, 4.445055142925519, 4.330600512868296, 4.712735036606155, 5.467869682605533, 4.797110391073303, 6.08857134300043, 5.561744218753848, 5.222224630720431, 5.938978867642876, 6.616499636354808, 6.495775712348477, 6.180982712412556, 5.620774352385664, 4.355238662107599, 5.903477767218223, 5.830856490066997, 5.285519573725999, 7.821055945080455, 6.5848510976772845, 4.976250170314892, 3.743691032716414, 3.834807740481357, 4.289469834012615, 5.323790665221139, 5.215684538752158, 5.774645705258193, 5.142191349861566, 5.646212420719651, 6.760564241544085, 4.208766147086375, 4.95045517566495, 5.434068838211586, 5.960264890775566, 5.2864786741455045, 6.031380929092942, 5.100114794859518, 6.278683668451759], K Nearest Labels: [2, 1, 1]
Distances: [6.448987652175551, 4.816575335330324, 6.384655119449823, 7.305687532951534, 5.326766001187938, 6.0617766197410345, 5.826485499383678, 5.680057891729177, 5.37626342880054, 5.582228389648778, 6.670321804197275, 4.911190085019362, 5.208108088050866, 6.660051500230243, 7.4900456403607105, 5.58577172085702, 6.007658898137949, 5.2188568935462625, 6.8001714479306745, 5.730724939060777, 5.958783932971139, 5.614054940377265, 5.5291571989535235, 4.942809952877511, 5.408658861274602, 6.688500093892077, 5.083676425797466, 4.317066526052713, 5.6809424258079915, 5.2551628079637505, 6.363273155483485, 5.966342445680922, 4.47439720705525, 5.58217975598181, 4.8620878415655975, 5.20300431709825, 4.007138168176036, 7.739421042977541, 5.496072268742847, 2.8470334053347477, 3.6671296486652647, 3.0118748211666033, 5.15460472460583, 5.199098471430046, 4.336264453416341, 4.340191658708675, 4.595128225160988, 3.9172138582396068, 5.32402821919705, 3.84966885780065, 3.76366920891154, 5.242023117404829, 3.8202012448665528, 4.638837260880369, 3.284013012460019, 3.6655443155747274, 3.203041881422246, 4.941143055916869, 4.685702264806443, 7.269726529767683, 5.705497880658883, 4.057322453881045, 5.196950260506184, 5.710808063576624, 4.101376626004294, 3.519965931898517, 4.357235488453461, 3.364525680878887, 4.224691571015556, 4.069717890467599, 3.804586636308218, 3.521486057861789, 3.9892513294039005, 5.908309181997098, 7.137816793995933, 4.07294182744896, 4.433189837273116, 3.79487724168627, 4.145779148851507, 5.553632351323427, 4.272463935472289, 4.012787117424966, 3.1456526351480023, 4.476267952149912, 5.099561333005015, 8.171310683536138, 5.928153804173839, 6.225727427549647, 7.156703868355207, 4.174210003174056, 4.379980055461855, 5.449321125167566, 4.4898046385815755, 4.5661324607962035, 3.660352036294893, 3.6575761697002758, 4.020666552576204, 4.211614375251367, 2.3628565356905953, 2.437789637678412, 4.450658782194585, 5.2904633669993695, 3.057628544167896, 3.683319734169491, 3.67521384947212, 3.545970264466008, 4.112528191368499, 4.074861258791235, 4.242824242743934, 3.8112873368653, 5.014458336383157, 4.526712335006112, 3.8695856048937856, 4.4674733994889895, 5.369226050771629, 4.94809338548941, 5.142259494393158, 4.312996793011783, 2.909102816021325, 4.944874925299688, 4.460673227433025, 4.8385988042067325, 6.737816424896964, 5.448106937970803, 3.7725339702080793, 3.316740939602205, 3.5245446191375027, 3.2933496229322246, 3.902304199498737, 4.2014268590608905, 4.772294051450946, 3.7718728839754116, 4.740730139889505, 5.889509780008968, 3.147148328289562, 3.4455917101363367, 4.1402851983247455, 5.077629913650724, 4.2936996228980995, 4.749906346350962, 3.9895347490731736, 5.375562406057369], K Nearest Labels: [2, 2, 1]
Distances: [5.2887224716584464, 3.5612848099989147, 5.605770358256073, 6.332748372994077, 4.977631510752584, 5.187584235132087, 4.455199088436241, 4.548766174677337, 3.858525143575854, 4.210593387887463, 5.125888302125599, 3.216275228711276, 3.8807937934278964, 5.704075271277194, 6.451911318990586, 4.668098646183649, 5.192382425585733, 4.616743271067629, 5.8335004935645935, 4.660403031240925, 4.693450573375086, 4.753365509913717, 3.8517591493228

447, 3.6245529451807506, 3.9187156329712405, 6.44715413782108, 4.246900772275287, 2.872977344653212, 4.595860605288312, 3.6052918575815935, 5.298906213088625, 4.764515541263867, 3.3922555926873885, 5.133717337225619, 3.79785294119135, 3.8289947598596235, 2.6958101290489194, 6.628527272873769, 4.412615517400493, 2.9564132260347007, 2.209568337059314, 3.6763428976002914, 5.10081631087193, 4.6193874851758645, 3.118504077163073, 2.8761894738487097, 3.953392394050288, 4.748062360090713, 4.9664129103723536, 2.520509335792893, 3.426926885679676, 4.722435361421663, 4.0844897421298025, 3.985103618230034, 3.753410472279859, 4.05083256949108, 3.869213482596267, 3.9025169147027365, 3.895426064321398, 6.94055014106592, 5.592528813643843, 2.9771020582227887, 4.27305462541802, 5.133178031145192, 2.7510436438077606, 2.396449875624161, 4.01993378170706, 3.263790198811025, 2.885920466547189, 4.647850954688061, 3.206254220197395, 3.7043448903933585, 3.739892162687901, 5.461875569986329, 6.889827829419806, 3.246093940306207, 5.20785124531766, 4.1182600169856025, 4.014827488614813, 5.224532991838789, 3.5010842955375496, 3.3495923103072593, 3.8026896906123526, 4.044962961941693, 4.900367434459783, 8.27942726682167, 5.830113016233934, 5.68381958145666, 6.5880984592788225, 3.7645922887650087, 4.347581318215511, 5.95039303742218, 4.18380445416946, 4.7605435675845795, 4.015044302433761, 4.135316903943674, 4.564489181306303, 4.389391231088377, 4.254523957825013, 4.548413880698382, 5.6708481960683, 6.413043293440374, 4.1843835479259655, 4.512092757444548, 4.620695004528631, 3.7213062283367018, 4.6537537781781095, 4.365486045666243, 5.030041422468076, 4.482378554528765, 5.602775977392939, 5.6190569296332535, 4.970584446337494, 5.518302224638947, 5.885470095629834, 5.887903939428138, 5.703401322840576, 5.91916390742117, 4.7115577469117875, 6.203409922292175, 5.459417105862177, 6.142320665619803, 7.37955064873071, 6.434057282890699, 5.3051694787395425, 4.058597715854497, 4.780725144887148, 4.26307384817758, 4.655035952444991, 4.948013043590526, 5.626602761323277, 4.873579370310154, 5.276447795799734, 6.250178498533706, 4.450235622075518, 5.1134400848164985, 4.942878299829717, 5.9511096753782, 5.055711289625566, 5.858650618080741, 5.44457596751396, 6.329146155314135], K Nearest Labels: [1, 1, 1]
Distances: [5.008834810664854, 4.027028439118492, 4.300653570897493, 5.435460366803865, 4.514309956725966, 4.995448119542427, 4.8204371380171525, 5.25864643980417, 4.31229174131675, 3.594603902292093, 4.6491916017578125, 4.3429974269938825, 4.034428556670524, 5.269791668143364, 5.668848793416513, 4.702074029632467, 5.196307575906479, 4.505924695823742, 5.541835562471331, 4.321428240090768, 4.165341540608005, 4.139615695355471, 3.805498786222917, 3.444918502957688, 3.58074832773375, 5.986190127174849, 4.109048877004441, 3.977334119939921, 4.167463742741538, 3.7356749479422526, 4.354360572664169, 4.418293305953061, 3.9064889919319974, 5.649044112871708, 4.216241342188244, 3.1711331274176517, 4.080037541037926, 5.67969018962101, 2.6149282885155323, 4.3616968823288, 3.5444453384278067, 5.103406183112512, 5.357728228227671, 3.9298402924375435, 2.685276436547184, 2.5985890605258772, 4.20250286084734, 5.9394882048161595, 3.6307167665013327, 2.9738018855812602, 4.161147585756264, 4.701297332388619, 4.47041870609817, 4.126537619169293, 4.6973995953764485, 4.847476798846734, 5.3171914370176925, 2.8183281150072803, 2.2145241042821255, 6.4720437314523, 5.89181396272738, 2.2766050759298984, 1.384025438239272, 3.6510730686975346, 3.3988885773097457, 4.238434367027226, 3.6976078456148977, 3.4936330758836753, 3.309690108951994, 5.591381789432387, 3.7677953174442496, 4.873183228220452, 3.3552166414130156, 3.37486099351121, 4.987915582116437, 3.0970401587744103, 5.854716639772028, 3.5448644051700677, 3.7344359501796616, 4.48113351675024, 3.69189904804378, 3.6862441410044493, 5.660175094997083, 4.314707699394165, 3.276859682245209, 6.549970483617526, 5.598758368216181, 5.223181968098273, 4.481535284097911, 3.158125393651547, 3.2475180839316233, 5.672771674235984, 3.726166614736493, 5.073068443806742, 5.71824992859564, 5.819087255642598, 6.172603560175909, 5.665246651093355, 5.771325886562979, 6.489574228812183, 7.251738167191463, 7.511655382206572, 6.457152962106418, 5.76681971686352, 6.348124385675682, 5.975413437638954, 6.591617922671461, 6.051342230795354, 6.388956943879644, 6.3835083329529985, 7.748698718452782, 6.924260481131551, 6.24167446028253, 6.801608123613777, 6.882985712038882, 6.656277281488167, 5.951405826021078, 7.030649212403852, 6.344848082251468, 7.47558987098011, 6.681139817189529, 7.193237124682842, 7.215263613676261, 6.396983533436165, 6.119686712215377, 6.1880880406158925, 6.44288486072894, 6.229885256380128, 6.535432973182032,

6.926130595138736, 6.739737046382015, 6.388411898945773, 6.402240531325726
5, 6.933398391248706, 6.236500254842583, 6.842762181698024, 6.5500476563517
67, 7.531331685420112, 6.355708050790107, 7.3219579510064134, 6.93980266722
2613, 7.408980637469532], K Nearest Labels: [1, 1, 1]
Distances: [6.026541489277149, 5.044047860741508, 5.619033280282428, 7.4282
21071142875, 4.106202786912669, 6.154271340057753, 5.713467238753697, 5.213
390174564052, 5.684561289754873, 5.676763904929539, 6.230462196392178, 4.77
98073917575925, 5.022287738947956, 6.529124070456034, 7.402959257161389, 4.
928540835918374, 5.517346436300341, 4.800992496199616, 6.7558058553800135,
5.2562927143309075, 5.580630747555231, 4.579332436411278, 4.90537472587122
1, 4.055719635234027, 4.221621043796336, 4.898677514210819, 4.9087228745891
37, 4.612261993591097, 4.378693226256491, 5.185033057268435, 5.466765361405
955, 5.823868305311272, 3.8265730453865547, 4.838902889391465, 3.9807404516
024194, 4.612019412663634, 3.8366889709868874, 6.208016404460882, 4.8504246
34867314, 2.9616912404836775, 4.270108689465933, 2.9615772510948184, 5.0745
53631178515, 3.932051920239226, 3.2138734091818106, 3.6405505777416254, 2.8
387194873323343, 4.516505373311519, 4.514760796658985, 2.6414417645156716,
2.0936343328284672, 3.0412207023289, 3.0452873148130197, 3.841036000424612
2, 2.8180079174219133, 2.8698948886302453, 3.5057663247950277, 3.8542527998
799305, 3.666658626523433, 6.437589801311343, 4.43174769517496, 3.631797092
22489, 5.045574032050571, 4.428273111826924, 4.0259012199565785, 3.71555078
30537506, 3.822047160905798, 3.8262312814795494, 4.011956773960503, 4.02685
28164917425, 3.5844657840485565, 3.5784716406007293, 4.199002253331852, 4.5
521975416636415, 7.080037973312854, 3.842538387062919, 2.6553155342711, 2.6
25995204233969, 3.410222886636272, 3.523451218012031, 3.9820505751275626,
2.9916641490164095, 4.782059135478506, 4.303151663706197, 4.51995748759533
4, 6.753852318837134, 4.673870611916573, 6.232147257760849, 6.4654998646260
73, 4.005767393676567, 4.563773019950657, 4.248206966748719, 3.848837920465
935, 4.490031800697072, 4.397746522456068, 4.427770101871357, 4.82849913325
9943, 4.727475356132875, 4.333642163349005, 4.669511570118121, 5.0761767715
4578, 5.4725231886484185, 4.722866833799902, 3.8227839989985206, 4.00140896
0454238, 4.6848520329442636, 4.140398318095543, 4.662167603156951, 5.478466
229609753, 5.150114948149367, 6.370330623737999, 5.78800588648932, 5.489040
516167379, 5.804023552118634, 5.955611110835645, 6.12449934034132, 5.368756
557383109, 6.184808663753661, 5.084430785060312, 6.293749708146852, 5.98813
8167663234, 5.541196084474385, 7.565056191064312, 6.515951947734395, 5.3226
62448120933, 3.961939312471675, 3.9323307781136907, 4.529623839280032, 5.49
2791541678214, 5.361302117632943, 5.466986619191534, 5.406437043362344, 5.2
01543324973616, 6.0437734629198765, 4.4498187930588555, 5.588383960596574,
5.7043756350223145, 6.252833821863213, 5.198525817424851, 6.29553964299737
4, 5.579641553504671, 6.27819424683284], K Nearest Labels: [1, 1, 1]
Distances: [4.359730213759165, 3.8838980969456776, 3.122495284217663, 5.302
5727056592045, 2.929542729282369, 4.1990663573562585, 3.9934574943194696,
4.204493851216556, 4.016513756196527, 3.741168730270019, 4.265816955337623,
3.4216210885980725, 3.173635757805692, 4.527778972931375, 5.13448263002760
6, 3.5066328022833684, 3.817474259881779, 3.151961149558191, 4.881380465395
944, 3.8431799417216683, 4.063958263225447, 3.2660906779855297, 3.524936996
101866, 2.74937260460716, 2.986949042133743, 4.2043190339659855, 3.16519322
4571318, 3.374351380454268, 3.0547811990915505, 3.5339821084221072, 3.34044
8005815704, 3.8208673277312264, 2.385074638190783, 4.116266261916099, 2.662
692410249773, 2.8389874422595356, 3.808123841063504, 5.475905322055687, 3.4
43027362846488, 3.6627188034732585, 3.953406949137269, 3.8035987825845607,
4.067716719236641, 3.4293750436407517, 3.3915018798952974, 2.38997765056835
08, 3.176913094914308, 4.422631685716125, 2.7561926124207035, 2.53999940841
94466, 2.8227840137774116, 3.7006732600698533, 3.0368695422110275, 3.747996
5565922004, 3.0494860614924013, 3.173466539630843, 3.645231428519081, 3.156
268658250915, 3.171673324338819, 5.338392705316244, 4.443477641551824, 2.85
23408262106362, 3.1152651438777506, 3.346259762249492, 3.808759969542176,
3.8002265903364436, 3.2863594977093196, 3.642638344950636, 3.49153373544149
35, 4.385122653146345, 3.1287186648529404, 3.42416308084969, 3.316741884450
7774, 2.5297792895691593, 5.359959590225815, 3.517005655244292, 3.605879523
478841, 2.4326273286499696, 3.307916551450292, 4.011698342406248, 3.7360951
69571003, 3.038459645517219, 5.021823544148062, 3.908206658012918, 3.110095
781680628, 5.804888472685929, 4.600370602797126, 5.416622626416155, 4.87512

9643534973, 3.430131026031646, 3.1942761771482737, 4.152227374119245, 3.165509219333703, 4.267362741782241, 4.405679919707388, 4.555802306416786, 4.932398522380385, 4.75401289812648, 4.197191534986846, 4.843325901611837, 5.597996375636587, 5.967055324810437, 5.119929355928992, 4.332602452368602, 4.558344221107729, 4.790202565900475, 5.0001719214211136, 4.955417105938228, 5.14365391737407, 5.0012156247250035, 6.724039765218323, 5.692399570996325, 4.964168015711502, 5.479957799441894, 5.551435402679308, 5.494126518070889, 4.694611388882765, 5.417932652552603, 4.795941954840353, 6.000778819299897, 5.419969728784706, 5.465079658513414, 6.042649310546121, 5.091246835644115, 5.035356192177154, 4.4702538871535085, 4.5659732363273795, 4.668481162057503, 5.288543157501137, 5.5997973525325, 5.078816668714445, 5.156825369179698, 4.648371491825622, 5.711115780336428, 4.87149818662932, 5.637458192694219, 5.142460980355487, 6.155597343231048, 4.815664045151327, 5.864735903991473, 5.099391146244372, 5.923506095253084], K Nearest Labels: [0, 1, 1]
Distances: [5.086657418503422, 3.699579612817411, 4.877251442163155, 5.694720578012534, 5.874705699212419, 5.125843020900806, 4.521444946458312, 5.8509477199229405, 3.654260753175991, 3.4947138271891536, 4.754022079863125, 4.327334009745373, 4.0897695476092455, 4.572986145293985, 5.196960392195957, 5.5454125370768415, 5.939382706479786, 5.357475776177165, 5.757775598325977, 4.963959785930831, 4.375076942462094, 5.033695622595543, 3.994140148907134, 4.2788129112382105, 4.507829266025375, 7.528032978148047, 4.629739024175637, 4.033629883581369, 5.245250175146275, 3.388078977214484, 5.3571421249463125, 4.841090033672401, 4.107279603129779, 6.546642378584969, 5.145194182394451, 3.927766524498528, 4.800074566243162, 7.391164620828377, 4.375732174718105, 4.579173368335623, 2.8035225935206243, 5.754870680315532, 5.2192875226951205, 5.0942590207100436, 3.4801837832582208, 3.057554178713219, 5.42937482128116, 6.137564364298264, 4.537566130276539, 3.7500598775228116, 5.127906562083665, 6.179152812655262, 5.376301748618473, 4.932520611503399, 5.008795050991984, 5.455863249405225, 5.39538270541948, 3.5817244990233887, 4.0794261095491136, 7.003587380280648, 7.308121758029006, 2.466650546351086, 2.6156826586287703, 4.075006327490459, 3.3839556318206108, 4.085830650100951, 4.866625139074251, 3.9134403713286448, 3.479421998052118, 5.819300447542845, 3.7784180619742305, 5.145280054073798, 3.3091808384922787, 4.791131288396696, 5.101591303115803, 4.148681945476965, 7.021859565394627, 5.0095614791691, 5.02948030892105, 5.4476486221585905, 4.098566224204517, 4.644428128469205, 5.413061175004535, 4.426407787438454, 4.534724473177381, 8.305204867836832, 6.895367473630705, 5.5216562177035495, 5.1600277849208185, 3.9917684772919446, 4.013521369205709, 7.029024979938969, 4.670293577525598, 5.806585530682097, 6.38075950009098, 6.476235717013179, 6.894139428447485, 6.592838155264982, 5.822907727886441, 6.509032190180518, 7.855647725256039, 8.302985534754628, 6.442413333931508, 6.825433275299106, 7.0288699108873125, 6.1983989412220035, 7.430638001546115, 6.423001095634594, 6.649382695849649, 6.526664780882611, 7.7522384342080874, 7.323603222005374, 6.520397512180514, 7.2237952249392, 7.7002785710858515, 7.234748045712089, 7.191834267428782, 6.814140459633906, 6.3057571777878625, 7.588125897349417, 6.649623018532151, 7.978522429354956, 7.486179912642055, 6.694358136136271, 6.6452596979591, 6.765075193765765, 7.106584719806114, 6.559813944874483, 6.62655114203058, 7.010733519600083, 7.327865149069358, 6.524270820255443, 7.072013146578111, 8.006249074269345, 6.638552654347216, 6.928793532304086, 6.608562472892068, 7.72947168363643, 6.882941263545143, 7.469774101291914, 7.1285825877671645, 7.934585869804384], K Nearest Labels: [1, 1, 1]
Distances: [5.764737685836347, 3.9168206171519344, 5.4690572757859774, 6.675310336163567, 5.354654158355049, 5.96761377376904, 4.90946497549044, 5.333980257491848, 4.853785977540203, 4.242207064361192, 5.587958096906162, 4.128539606944892, 4.321671172658145, 6.412227746296562, 6.935429797030581, 5.378315685451836, 6.057035210171207, 5.407220115651726, 6.5049737475236755, 5.028414724051323, 5.171720287769004, 4.482405170198084, 3.915426426279609, 3.289187297105693, 3.7264662116189036, 6.673043462673569, 4.40854273292243, 3.466689315899476, 5.036628203712282, 3.843609419281855, 5.578073752521954, 5.135975754415663, 4.206506897667905, 6.153360299907756, 4.471240599163091, 3.697405078674366, 2.7050919039984542, 6.756064741887178, 3.7361923408402897, 3.055398166373512, 2.3864381360227167, 3.958968210651487, 5.659188934117326, 4.450118142811118, 2.1278667806305673, 2.1636426578615997, 3.3726155515798446, 4.974765037822548, 4.026682000301976, 2.414890100499117, 3.3924256

815558684, 3.928956278457292, 3.391380745915332, 2.790632706892036, 3.5759032250971647, 3.519859981875467, 3.9853998487883797, 3.013860338552597, 3.114818963855312, 7.4926295558006695, 5.843640488769348, 2.4314188605757368, 3.6328960116029996, 4.789597010831072, 2.413426554625163, 2.156496227760253, 3.3384870765550323, 2.6104105169049703, 1.549580339401489, 4.208192758757392, 1.9745502269293476, 3.4921639869779995, 2.8847602289059266, 4.507655375573462, 6.177336072150687, 2.663671444965609, 5.353138164702048, 3.507087839722082, 3.0787616187934246, 4.55348245440881, 2.010748445988381, 3.1389750944633263, 4.017144854266829, 3.320248399418589, 3.778395922788637, 7.637219195596988, 5.48191054603499, 5.238976830057652, 5.341770042710158, 2.532703066692748, 3.497844795436319, 5.5023203333558826, 3.445157400732941, 4.225343346422091, 5.131566099434767, 4.830077902089487, 4.973369298918027, 5.025067207881652, 4.699461266760661, 5.1268555582278905, 6.110252670543927, 6.721478030153093, 4.995605726865413, 4.989710815461736, 5.046840650230183, 4.143031819741654, 5.402854116896119, 5.13704216263936, 5.280258968131856, 5.201417719991337, 6.2731276309982915, 5.762719975279432, 5.3659008784470865, 6.077634852765835, 6.544540817125722, 6.0902695780444835, 6.124118289629303, 6.346707701339258, 5.124137608227948, 6.626177672029332, 5.928637396863174, 6.31795134155094, 7.551505991440426, 6.458669891387263, 5.3657840500526905, 5.2849551098597125, 5.371644372223589, 5.036660491997192, 5.215869722661857, 5.562616019156146, 6.259300638868601, 5.075521082127168, 5.774010319216772, 6.634123091029607, 4.671089675471961, 5.3085079759390785, 5.617560799866912, 6.58506146061836, 5.680058760381083, 6.572690414070545, 6.2010530982569465, 6.900095736552468], K Nearest Labels: [1, 1, 1]
Distances: [5.6733322175072445, 4.494761680499899, 5.943851197508551, 6.505720607543095, 4.416861164045138, 5.216406579631569, 5.118822613641444, 4.46245219140756, 4.920648025199502, 5.2880418843170816, 6.079499093547991, 4.344309778138445, 4.705380921288205, 6.169745390177158, 7.00112280157676, 4.693998757324514, 4.998255470368883, 4.334379320768995, 6.07405921355821, 5.198555814812891, 5.4021555154707155, 5.337720361920006, 4.845744231835683, 4.341385428774008, 4.6774196434909205, 5.5276881363058745, 4.251071112238785, 3.925912934313589, 4.597595747328403, 4.827851890591355, 5.622162347981079, 5.436168247376856, 3.8375145377626465, 4.125837397870285, 3.906915106981638, 4.7691653124625555, 4.195092702815389, 6.835919117902389, 5.153251787837189, 4.16379054046126, 4.746137283969849, 3.4297716411791717, 5.350935447912711, 5.0466190277700145, 4.846097988293553, 4.576133466931683, 4.5402810785581815, 4.609774648001162, 5.408291834663739, 3.8042745984383677, 4.107377128631552, 5.138579708989734, 4.026103077635637, 4.749468594705795, 3.933149006803954, 4.218592721192072, 3.923711159787643, 5.29579340243892, 4.901282428965112, 6.8355388439661, 5.391137182120157, 4.649760205210656, 5.363049951378482, 5.985794396454686, 4.7840662914681875, 4.277159265797619, 4.212705591705507, 4.219045728020823, 4.545908957793003, 4.4627870206395235, 4.547064897652175, 4.151866422945951, 4.682416029842697, 5.685102842217015, 7.691844847488789, 4.393983658700027, 4.092763119806154, 4.004714459163706, 4.0866717252281095, 5.888118377338843, 4.834537491425912, 4.169978666020407, 4.35699810279168, 5.050691703712992, 5.144411067045093, 7.699327447625288, 5.757544519463057, 6.633914355648906, 7.500282412580659, 4.564919526994125, 4.749790246932661, 5.380404347108667, 4.769848806733361, 4.99928969344349, 3.8398172875535788, 4.337670632758859, 4.726272298656624, 4.74296003144289, 3.2770731719941963, 3.6156270965120125, 4.929829927896242, 5.605471201078377, 3.8606372750805646, 3.4171300056693226, 3.556902550209581, 3.865863422790772, 3.8575100219244716, 4.351017208231231, 5.147904144013198, 4.276394813745549, 5.862867782539949, 5.254653366896495, 4.623499061273077, 5.385289151626442, 5.750000330020439, 5.8521178547208335, 5.214690576342393, 5.3267355017281615, 4.131978813540245, 5.700858219859277, 5.325243152028424, 5.0291277980709985, 6.944534732266875, 5.928216049362246, 4.718350947437861, 3.121829075428711, 3.629535842424856, 3.8406314338569545, 4.85643859137975, 5.024117714831557, 5.26881890647971, 5.004735027605839, 4.927488087535032, 5.932602230450576, 4.193979265673818, 4.843414544267341, 4.701149558973182, 5.54526250990315, 4.6818850730262875, 5.4609027080049515, 4.468369772785744, 5.579990645488233], K Nearest Labels: [2, 2, 2]
Distances: [5.266720014254106, 5.621844123784958, 6.283786536739167, 7.247919457006495, 6.186419412661596, 6.565016278131864, 6.3924520160967715, 5.976310324372536, 6.211461901854061, 6.060515580804293, 6.045266268217274, 5.9

24421914850079, 6.381999439435398, 7.409988097868832, 7.144641565551068, 6.365337872775932, 6.3907424299052495, 6.381602631554695, 7.358919107674424, 5.61359040580886, 4.839928471788594, 5.92314928671296, 5.63378688846143, 5.756561540194933, 6.069497274567794, 7.248259776114872, 6.783981945053019, 5.641654127105253, 6.460231270492179, 5.551353277603011, 6.702454547595956, 6.032568900542625, 5.418126534246091, 6.3197296283811495, 5.605142638995523, 5.691887738421071, 6.439315816787833, 6.129358652296762, 5.383051177375257, 5.185028448057725, 5.391208188299065, 5.4026874971481496, 2.759396743581679, 6.237620999656911, 5.602598888660688, 5.436507957003359, 6.88212648753496, 7.719044379609604, 5.6860420417145505, 4.854423277415505, 6.014376902990583, 6.858527989196535, 6.748203816931391, 7.1524014585320375, 6.605190775048267, 6.53977273645843, 7.085785763106899, 5.537347990183829, 5.396400977431003, 3.3369180303365575, 4.891499566180282, 5.409415485995509, 6.183396256849266, 6.267229592069667, 4.582623890940969, 5.280266816980773, 6.150968833969468, 5.870771650533346, 5.607457781068747, 7.254846599619623, 5.983897016744792, 6.677463776710538, 5.386447025115878, 6.15145799086608, 5.712193962179682, 6.144857987696584, 7.378768669502607, 6.520168436799056, 7.104373301884183, 6.710774652827969, 5.560626002797391, 4.803390231849282, 7.336983098619189, 5.78592415780111, 6.104330647270342, 8.99530790518548, 7.346623540291942, 7.46725014406443, 7.232526141050301, 6.4574127809944395, 6.820781867978852, 7.958147719251393, 6.403472358493653, 7.4356888710866516, 5.409768250942375, 6.585204282713159, 7.189355852970894, 6.520903719251879, 7.460525426194241, 7.5983912707035515, 8.423611734799737, 8.831233643537168, 7.7744432088140645, 7.434529558250207, 7.647097377098599, 7.2145768888670085, 7.965874467012537, 7.539991871349513, 6.304437455008295, 6.7356588862049795, 8.92377907179339, 8.583480563675142, 7.83274842110906, 7.348259856925876, 7.217569279520162, 7.408758543824775, 7.124677428457438, 8.041689227488826, 6.848041381447193, 8.599379070296674, 8.232203931822767, 8.601215819177916, 9.103589051650935, 8.60468470797158, 8.175344519979106, 7.087482090760653, 7.349569719484777, 6.65576931147959, 7.86483473490693, 8.087381316459746, 7.548832171521011, 7.7958468944268065, 7.38076646098514, 8.036329486339598, 7.085068584569532, 8.361172734617867, 8.063299374641884, 8.6481842047785, 7.394778256243907, 7.24912473792644, 6.962383314959926, 9.07974461817636], K Nearest Labels: [1, 1, 1]

Distances: [6.029465670682586, 5.017259520991699, 5.411112442920569, 7.146403354644534, 4.801886402997017, 6.024030158734611, 5.329245409336419, 5.201684930683728, 5.490889021343966, 5.5723631213403655, 5.958181055703856, 4.295989408364645, 4.7826661818942116, 6.836260632122128, 7.2757279116230125, 5.418624679924774, 5.427939307049787, 5.146327455998238, 6.799660928777012, 5.331326600886976, 5.882804689618242, 4.695574690052392, 5.056267031369638, 4.212530889477977, 4.692162985136872, 5.802582546077366, 4.844453637012396, 3.6643466626048, 5.409750635595069, 4.8428379531917845, 5.503400233573042, 5.274617775420092, 4.116359321401724, 5.574330929678675, 3.966756257594903, 4.4591636626082507, 3.4260933499137143, 6.692262754607258, 4.7511111104323843, 3.0575783644840886, 4.113544997465048, 2.6674011830965596, 4.2506245563963745, 4.816368003573399, 4.511530496556603, 3.6819422238288535, 3.694250385610542, 3.7479131513483313, 4.070579603217035, 3.5853448415362896, 2.959084422722415, 4.220515302061382, 2.992670225959446, 3.930505557910877, 2.8323614083624817, 2.7484575386655736, 2.7989660252535624, 4.4620104147698365, 4.668552135795293, 6.080059502074794, 3.7892140656478253, 4.253602518388843, 5.404674262695443, 5.548295047817798, 3.9343249567598333, 2.64260846649143, 3.9161970445920278, 3.43456437012861, 3.6513325214305037, 4.051403913303461, 3.153358924643919, 2.528055562089239, 3.7765154483579084, 4.815320643609707, 6.223840673488092, 3.844318742332109, 4.232574287793855, 3.637202837101197, 4.174476639072229, 5.447304966258364, 3.3671624726651794, 3.1529182647825222, 3.7205024160406253, 3.517630419674765, 4.498189249677075, 7.824041632643167, 4.931398122555328, 5.730763851975036, 6.200623218107492, 4.150237523900593, 4.392810253651561, 4.617162842269914, 3.675643731974956, 3.8375946794769353, 2.7837483505989953, 2.8427815860071486, 2.887260601371547, 3.2854527067948047, 3.2611068204811726, 3.4044105551740316, 3.8955637166039323, 5.031600508317553, 3.711117591275213, 3.7264278953428085, 3.357169640371699, 3.0402528344166497, 3.8572624465449095, 4.17354328450229, 3.4900655623343955, 2.7033948490181063, 4.864061233117501, 4.498874500099432, 3.9554130329486497, 4.251327902511375, 4.604753316266205, 4.59533908445558, 4.4048

206080406835, 4.799717721133229, 3.037662901153494, 4.900196890940345, 4.7650438439673435, 4.424499385644081, 6.835737931821411, 5.685952962066551, 4.29809326848721, 3.559449786148634, 3.501873843849721, 2.7498271035663637, 4.008511067719384, 4.109089651081801, 4.593218335515444, 4.032605275730914, 3.8827534150764773, 5.223766658845779, 2.8026557039850917, 4.287259254188691, 4.40921433501708, 5.088416916393658, 3.7123762407404826, 4.616801650210741, 3.9360703180444645, 5.502163641545862], K Nearest Labels: [1, 1, 1]
Distances: [5.1626578372566625, 5.512963281552636, 4.330287631944894, 5.803031252176261, 3.750092563100448, 5.447497173170172, 4.869263661789488, 4.9226257252535826, 4.819918639259323, 4.447100132008907, 4.798810213240746, 4.400517270656511, 4.400431211565773, 5.711579076757786, 6.321568483456904, 4.628516356057247, 4.5630526292577365, 4.249096624116126, 5.832432391902042, 4.629316894970728, 4.688280101407667, 3.9374838270430694, 4.015500193227567, 3.746652924953817, 2.8169869465574364, 4.461720661323999, 4.454218572801866, 4.7958626042445065, 3.1985362275824203, 4.24587704683603, 3.5799486034162, 4.790598191519205, 4.0109559795217, 5.238486629585848, 3.805645658213824, 3.111264059573054, 3.5087677283329985, 4.616872129636726, 4.066098249336964, 5.858765404852191, 5.154194733869967, 5.847472801372462, 6.658211352663715, 3.6042361287990956, 4.164175986021585, 3.4610416199833853, 3.724916570063245, 5.703850202573055, 4.5134990198475595, 3.728017906911268, 4.106714683994122, 3.9337717024555428, 4.7495315351671685, 4.170713146805728, 5.172147819426245, 4.831805175719787, 5.3992559132223965, 3.8459173200521772, 4.148209828290924, 7.045654129909479, 5.789933057575998, 4.376149635511717, 4.070368844988019, 4.499668365900449, 5.209394918974935, 5.1145096763324425, 4.024997212001651, 5.148994426407323, 4.1998065221319445, 5.572481412656461, 4.574759719177396, 4.7637739822577885, 4.851054695901878, 3.9972962819204167, 6.654743913610188, 3.9033871109222886, 5.504402084649066, 4.3562682364260885, 3.9244464522746667, 5.158828173655263, 4.771413015080996, 3.949795461278588, 6.537008774035696, 5.256135271711249, 4.527567653980711, 5.822153260710948, 4.562524993546958, 5.4325005087540665, 5.098397428322781, 4.218055728031811, 4.174302373390854, 4.832405034051598, 3.7468729411566604, 5.252147410670689, 6.251094782521524, 5.956890248126402, 6.011117516519165, 5.85028020737425, 6.54720459102086, 7.056077313755113, 7.178103037035302, 6.964203524248333, 6.509574776885597, 5.277670178333284, 5.885016034424077, 5.888162707954574, 5.617388865805773, 5.7770460768693646, 7.076522121442697, 6.538359796581873, 7.545905405850037, 6.890303044020141, 6.324251721605845, 6.9417639071369335, 6.456509825805393, 6.886958911752198, 5.4812182392344635, 7.461830422307013, 7.030261813152808, 7.441841012814828, 6.675780021016331, 6.759021588238868, 6.721304952370178, 6.359813760998556, 6.606355335489593, 5.767544056187766, 6.069233105487584, 6.451584541995045, 6.363021367165364, 6.532814124057853, 6.324652495954278, 6.76359271397834, 5.648964065003163, 6.125421632547405, 6.690331258698939, 7.284446445673901, 6.335823398820019, 7.267224890499642, 6.023618683854852, 7.578638044791634, 7.169258835334196, 6.6071788927459085], K Nearest Labels: [0, 0, 0]
Distances: [5.57021225255191, 4.77282387346412, 5.174151075363393, 6.445711932365632, 4.274976288731748, 5.7742929207292555, 4.798890007515173, 4.747273851005668, 4.7461528196921865, 4.530392158798691, 5.473035462687229, 3.8520748032564733, 4.345854764934238, 6.50896608109497, 7.134155049246219, 5.0563869607009515, 5.070595786881448, 4.670510813406628, 6.421249261845319, 4.6539856917510285, 5.0957693534197235, 4.018434185726403, 4.062983726801378, 3.45105293108186, 3.2483570989505965, 5.41878554007138, 4.2686344623672765, 3.5673167918297652, 4.372296633440304, 3.989677412264311, 4.81980673500075, 4.936199178915785, 3.9315976371218153, 5.494120361935907, 3.64212733407865, 3.301559829330497, 4.330656989994128, 3.4327859151526665, 3.632566934978545, 5.983856700312544, 4.970588990214111, 3.4844055395348867, 5.087869050172161, 3.7590473642782394, 4.182970350758417, 4.400574321659491, 5.157563428860726, 4.674854369528629, 4.287985810470325, 5.226353836263266, 5.981233970970678, 4.747893926615699, 6.0377354026017525, 5.219820479840643, 4.309178842592233, 4.675892533816412, 4.925737810342607, 4.7514189627978265, 5.430228218434081, 5.85072384057384, 4.8622787381009305, 4.007138168176036, 2.6958101290489194, 4.080037541037926, 3.8366889709868874, 3.808123841063504, 4.800074566243162, 2.7050919039984542, 4.195092702815389, 6.439315816787833, 3.4260933499137143, 3.5087677283329985, 3.4578659634664572, 4.555725011899134, 6.486455610828223, 2.271664814624975, 4.794262853492275, 3.5703873

478473067, 2.8087149937464537, 5.365322290697193, 2.8606510193828183, 2.5474857865641574, 3.876687702719622, 3.638730794151595, 4.052468552914498, 6.936552876314593, 4.143869048914295, 4.6526264451051516, 5.349801925536464, 2.8593928126426955, 3.217785503737282, 4.354978522936777, 2.6270524567365583, 3.5693666145659537, 4.080805360732761, 3.4617158451371486, 3.291457965944469, 3.644827619799011, 4.404461097340576, 4.62862704523943, 5.0203006536143215, 5.399698514433888, 4.055162772980118, 3.568756584469336, 3.730005925802263, 3.021658132336779, 3.590772591368878, 3.9371005023194634, 4.745685822129916, 3.946472626242225, 4.950088414493264, 4.652601167025818, 4.135445895497223, 4.795947937752907, 4.76837827697798, 4.92016799737125, 4.3015495467933365, 5.653756250451878, 4.509235587077335, 5.54266080749478, 4.792387699402283, 5.004102348610855, 6.403428157171825, 5.534754198061323, 4.551320008318374, 3.890759010367862, 4.1266711775616045, 3.9291988873630737, 3.926670116074584, 4.18992593394671, 4.898424790957248, 4.435651383981521, 4.047070395932643, 4.891712950387363, 3.9225155690639486, 4.66655672210945, 4.3320488929011365, 5.3521593332105635, 4.1247778752631055, 5.566814218449372, 5.192403075492192, 5.222939880142909], K Nearest Labels: [1, 1, 1]
Distances: [5.1250530801419565, 6.820477183027289, 5.097809471292968, 5.795366673099157, 4.1154227775828005, 5.80844049273451, 6.275566162891578, 4.871085572439911, 6.559139280610264, 5.796915638571228, 5.212293725249072, 5.909450776876887, 6.034976067625705, 7.503041469216584, 7.127490698417775, 5.072520209513333, 4.500084595347924, 4.536846774742938, 6.064030575416208, 5.400549053848488, 4.948486113272918, 5.172965783598835, 5.283141619137912, 5.201043739806538, 4.673924565269877, 3.9075973076204993, 5.869764845729357, 5.984103548287018, 4.408049511401888, 5.812940298971447, 4.239156533939855, 4.988246367980328, 5.308661583021922, 4.490565133151797, 4.562869669843745, 4.432520302997771, 5.466090344872349, 5.250971158243083, 5.984817430645086, 6.130939917445458, 5.222469077325535, 6.074213778139148, 5.824524522847959, 5.887332782484668, 5.334542709516934, 5.413853107862826, 5.840881172162524, 5.843043104507665, 5.111355573917704, 5.580460219227121, 7.165383695080845, 5.468996401091252, 5.972908425280917, 5.09211607154641, 5.224371857436802, 4.105400053503957, 5.220407424331285, 5.305134976286003, 5.44911429722167, 9.762618237629608, 7.803068250189689, 7.739421042977541, 6.628527272873769, 5.67969018962101, 6.208016404460882, 5.475905322055687, 7.391164620828377, 6.756064741887178, 6.835919117902389, 6.129358652296762, 6.692262754607258, 4.616872129636726, 6.543444829373666, 5.264412973817574, 6.872461175415256, 6.0085737900597795, 6.545346480030902, 6.142726369942201, 5.96782878325929, 6.719014179641071, 6.4164894285438265, 5.026118248921587, 8.616683107574717, 6.813702306802846, 5.497170524009748, 5.187250462952047, 5.399305239393409, 7.032418494662146, 6.67621369035901, 6.12793288777313, 6.133994264276592, 5.836687705124088, 5.638360071308431, 6.945578701818042, 6.829803254830262, 7.200226110931152, 7.20199106723096, 6.796981733340273, 8.224527182593494, 8.306674900005902, 8.418523595057797, 7.897250199322655, 8.189729455920453, 6.267090494236085, 7.258980003416719, 7.464153876974855, 7.066842949015211, 7.433712246456968, 7.504959552262384, 7.393463483406913, 9.460993004282962, 8.296297663507614, 7.681170950950128, 7.611825643645683, 6.808859144150929, 7.569940960305801, 5.98411321841662, 8.57896710462868, 7.94004389620377, 8.484557892747208, 8.375784695821872, 7.270604510806664, 7.662357539770789, 7.735811520647039, 7.9693580880369606, 6.902120527856801, 6.979752990684347, 7.472799191562021, 7.9422489053072525, 8.151624198343164, 6.986358272278098, 8.238100752035631, 6.506361099016126, 6.611412542768848, 7.996847965316269, 8.890528842034158, 7.9997750793726645, 8.438713832673105, 6.947935463011272, 7.817677517243341, 7.426713065149328, 7.83555456555825], K Nearest Labels: [0, 0, 0]
Distances: [4.6387933778386286, 3.9690901445921445, 4.00226997753431, 4.939169084010734, 4.039196766820542, 4.746424143907767, 4.562610390225987, 4.365316877905594, 4.73459704947573, 3.6859368947746463, 4.393310237479225, 4.096456393761979, 3.951264070476957, 6.077896204770295, 5.898507354484092, 4.325790984981322, 4.66370175383894, 4.304234899147132, 5.417439022218452, 3.937774325883865, 4.152568463939831, 3.7490294663463017, 3.517634985668394, 2.7320015987957795, 3.2222593488984432, 5.275173096029618, 3.6394822549675543, 3.331071370061211, 4.068981632719219, 3.6315937674503003, 4.0079636263620495, 3.774661283126365, 4.027827378330606, 5.064416627278894, 3.4697978753885104, 2.8674382752617804, 3.9625624032767695, 3.1049072094856838, 3.3240

73503770067, 5.258662470935441, 3.896861557061101, 3.903842503265501, 3.8294770405091763, 3.951676408008289, 2.883864164657799, 4.555267745635853, 4.540552832924097, 3.6748469566203283, 4.0345788149719795, 4.589877733203001, 4.648125451479319, 4.112216425366412, 4.4929030663068295, 4.433047529053499, 3.5706624295496097, 3.3414256879201525, 3.9929823381441336, 3.7098809365563827, 3.831133526196608, 6.437177856661433, 5.921013027593183, 5.496072268742847, 4.412615517400493, 2.6149282885155323, 4.850424634867314, 3.443027362846488, 4.375732174718105, 3.7361923408402897, 5.153251787837189, 5.383051177375257, 4.751111104323843, 4.066098249336964, 3.742244787139775, 2.957045465396745, 4.940928146521559, 3.209497435696656, 5.690410251089021, 3.642771403431004, 3.6920593953179455, 5.299888204553933, 3.4275293897570247, 3.503520136612472, 5.841127258860638, 4.219548348444609, 2.677156558575999, 3, 6.2952926718138, 5.19913099435028, 5.403263161031276, 4.614376238692475, 3.3607085441254214, 3.6098508966750154, 5.424674112628213, 3.8165789532573697, 4.813931707922611, 4.9604772771706225, 5.3384122087574335, 5.575953892267483, 5.019264548420786, 5.73620885919779, 6.349181778526439, 6.802931299550076, 7.216588840897787, 6.454564767946559, 5.241086689607347, 5.815772640113105, 5.374375697617256, 6.174445184244574, 6.00143052858155, 5.634666424572274, 5.7071753523926985, 7.660733093884562, 6.573684603828061, 5.952409791845664, 6.436136416787455, 6.294699002939131, 6.186417925802297, 5.278264968384292, 7.035781553572231, 6.000071272988727, 7.288498568684652, 6.760018611204423, 6.534621467237707, 7.242797206745278, 6.4369779437590235, 5.92769432458817, 5.864717058367494, 6.049324153959136, 5.672272609843366, 6.413907418869757, 6.885724735970334, 6.460649220042259, 6.236580472011724, 5.84932018244137, 6.222323187657395, 5.763382805682154, 6.754615986052389, 6.430322204851812, 7.270058559441204, 5.882331986780668, 6.80744745861908, 6.3837502681465415, 7.230783245265667], K Nearest Labels: [1, 1, 0]
Distances: [6.315794919922067, 4.34101838708404, 6.01598954249851, 7.6029411725593805, 5.485379845601662, 6.411221766695876, 5.777851713763905, 5.863802888753758, 5.491674755389971, 5.4749118611876595, 6.303770191043428, 4.774631060798639, 5.0597216713614985, 6.731060054840276, 7.36927652004302, 5.724696506494775, 6.393735335717675, 5.752607236089299, 7.104610740679676, 5.36821630631425, 5.733194677015494, 4.9119113498798015, 5.053412477195101, 4.35301546791056, 4.991614021584678, 6.882046984439793, 5.258235292228397, 4.053339872905124, 5.726569675324283, 4.932165275509161, 6.331423220209365, 5.858621348673635, 4.3452711016433465, 6.200172385129682, 4.783997230260231, 4.91414963527512, 4.847214816681424, 4.102314399543118, 3.3100688085708154, 6.501020591522258, 5.469548292116571, 4.4926163761691775, 6.22726148625034, 4.434749306999855, 4.614240955562119, 5.856265831960944, 6.0854080035052025, 5.511701241033067, 5.410228763407389, 5.920507456363485, 5.547746383986972, 5.751505319740746, 6.533954785252789, 5.950188752653756, 5.028292700015569, 5.865709374432746, 5.835823385596049, 5.488147886997085, 6.384218682715844, 3.671967238848123, 3.4643145695854414, 2.8470334053347477, 2.9564132260347007, 4.3616968823288, 2.9616912404836775, 3.6627188034732585, 4.579173368335623, 3.055398166373512, 4.16379054046126, 5.185028448057725, 3.0575783644840886, 5.858765404852191, 3.2751087280988296, 5.043160152509317, 6.031334316865086, 3.4177862115468125, 4.558468155124902, 3.403452488556992, 4.135848334901206, 4.239224185566806, 2.972162643663346, 3.18859257101928, 3.4209402604923227, 3.210594135360284, 4.406570185155402, 8.265815024275772, 5.657756240680406, 5.688273827797262, 6.086144709925212, 3.6671260034620654, 4.466151166946781, 5.640462676091564, 4.123709953839022, 4.268985270411439, 3.935601196910373, 3.949801479453735, 4.555129262143602, 4.224973843850543, 3.9792652992569804, 4.231319066106669, 5.0618000106486285, 6.0410164839483995, 4.428909475588306, 4.789926473357699, 4.700903583973732, 4.315356429309798, 5.148933211317369, 4.672873561400671, 4.405070749596164, 4.494666148419371, 5.730925278129456, 5.520069086335076, 5.200734795277872, 5.365588578415156, 6.065501824928941, 5.717537707671708, 5.914970347924766, 5.758173040438411, 4.379152621500713, 6.039677974274034, 5.653802109461837, 6.125774063226084, 8.042726812358044, 6.768849011547859, 4.976537755521576, 4.5984998648046576, 4.682912917629608, 4.050854853708132, 5.164142483514864, 5.16003204891698, 5.780954030611844, 4.7196713988933485, 5.680775075698279, 6.52153905479647, 3.7152642505899283, 4.973368019919251, 5.630923142806562, 6.114501605949142, 5.253357809869725, 5.789795534338999, 5.444637739295309, 6.842681326176844], K Nearest Labels: [1, 1, 1]

Distances: [5.697598353971403, 3.8168925429342804, 5.7422442042517705, 6.8206294750874585, 5.817913693231219, 5.8347444608049466, 4.9876298348870405, 5.726027527546069, 4.221879834227011, 4.371716279511415, 5.534337452453767, 4.0202686783198, 4.404657117727019, 5.790587041619088, 6.499732612941607, 5.590518274599238, 6.107617237183788, 5.538761353797892, 6.497872395065269, 5.118618021427232, 4.961740013829465, 5.1084911992984985, 4.398585291621748, 4.197239717274078, 4.6008871241343705, 7.4091512480511605, 4.97201250342337, 3.6139502677801607, 5.508084503991567, 3.88712483224586, 5.879004064787184, 5.286477828219881, 4.085476988097095, 6.418873226974496, 4.775717879854913, 4.295227057694263, 5.043586611339384, 4.146497801679822, 2.8847709686119862, 6.189027921795979, 4.8623343049710765, 4.195845175739279, 5.472632967134876, 4.470340670469861, 3.9557735619831065, 5.670527436088509, 5.33291016294501, 4.321544374993067, 4.7045792123110495, 5.162125167532375, 4.55588391207148, 5.070958107823666, 5.879863768070377, 5.8569496815171735, 4.409704165901448, 5.32892689147701, 4.992554417117814, 5.325444912105644, 5.661668064668279, 3.640517007912612, 4.791343723568403, 3.6671296486652647, 2.209568337059314, 3.5444453384278067, 4.270108689465933, 3.953406949137269, 2.8035225935206243, 2.3864381360227167, 4.746137283969849, 5.391208188299065, 4.113544997465048, 5.154194733869967, 3.051305084737273, 5.26291885180184, 6.038587376767915, 3.417368667571268, 6.090797526100834, 4.257739657094702, 4.527252902466305, 5.091685819412025, 3.1670361218750505, 3.6043359227821328, 4.000582025453959, 3.8473032999481585, 4.847680150199392, 8.749038746700643, 6.46806491883737, 5.720548762227639, 6.049806003458312, 3.7930407181064445, 4.228796311823597, 6.519861913420743, 4.241389613656086, 5.168426500033936, 4.575277218029908, 4.72994609724214, 5.172127328243224, 5.0052272813366265, 4.658256682185064, 5.1958523608138645, 6.489896633082484, 7.302295687167203, 5.0822711908918015, 5.71961957906236, 5.699886759335746, 4.688262444839636, 5.976596838560815, 5.342317155016555, 5.362763594629933, 5.1974733011727245, 6.228490536254835, 6.292089083154521, 5.552877615620816, 5.995824871631574, 6.470228771205038, 6.104531249532275, 6.238632148469562, 6.173966627523881, 4.968389559851772, 6.795551154863029, 5.857233882934902, 7.061445381381192, 7.658086647429287, 6.620326406291789, 5.79001720222776, 5.380577813789386, 5.841794666481166, 5.030346749070466, 5.279283183572481, 5.699566846154212, 6.338605838418841, 5.272306735959557, 6.032075487446603, 7.098530024727243, 4.946974226476312, 5.516718718907669, 5.592226454504219, 6.794932931204236, 5.843522247340164, 6.440276637425934, 6.096441762515983, 7.2030400368006315], K Nearest Labels: [1, 1, 1]

Distances: [5.827856277826759, 4.544520183386207, 5.651750846216384, 7.182680252445299, 4.28713256479081, 6.144834812504746, 5.566311834090015, 4.985240915228013, 5.703111505502827, 5.601046205057062, 6.339688049161927, 4.931370220801537, 5.206136891720324, 7.0019520759014435, 7.5708971214335135, 5.430435059092919, 5.7312792528893, 5.245317859281816, 7.0753648915129235, 4.723125796454941, 5.463448092745152, 4.075775213254098, 4.792974830364187, 4.0617981706752575, 4.503323980069212, 5.545644447551902, 4.775238273308694, 4.124815917209297, 5.113304506864297, 4.953550331756121, 6.0805150429369474, 5.792833070411558, 4.167503738005716, 5.285815081330646, 4.144525532727679, 4.609535898758162, 4.18434851003772, 3.8873016872368393, 3.8084894180408275, 5.699688419931964, 5.136352228715231, 4.093694920721076, 5.898851507442459, 3.516626529539446, 4.45493635993485, 4.782257128384206, 5.741494067554463, 5.607280677279428, 5.243158615113526, 5.950170029046014, 6.335396605418045, 5.816717241829533, 6.310009430982864, 5.345066581902378, 4.711269774435826, 5.498689033367225, 5.505428259008031, 5.112195033897092, 6.190832407841118, 5.0671817674084965, 3.3503330605798585, 3.0118748211666033, 3.6763428976002914, 5.103406183112512, 2.9615772510948184, 3.8035987825845607, 5.754870680315532, 3.958968210651487, 3.4297716411791717, 5.4026874971481496, 2.6674011830965596, 5.847472801372462, 3.4809505115971566, 4.703911703018364, 5.923891305692064, 3.154004311086104, 3.369253098719925, 3.4471143377193894, 3.5227184247577994, 4.96188674853588, 3.196864526789394, 2.7035652932221126, 3.124175475724375, 2.8738827866639785, 3.6979923475306213, 7.177619001029618, 4.0979452814998645, 4.8860469729495435, 5.651355921948955, 3.3102557475451135, 4.106415021997304, 4.607978622224115, 3.7034420371087973, 3.1837188595692103, 3.422535450619376, 3.215846895632913, 3.8849983180290595, 3.4936961701618414, 3.7397368328831466, 3.54914097151241, 3.7587581945899506, 4.4914221742409435, 3.611364473953179, 3.2972622430487752, 3.15784687

63124885, 3.460231411555145, 3.742286723947113, 3.529748033602527, 3.5364793606088085, 3.296505410031671, 4.976464865460945, 4.354091176934898, 4.342724434494163, 4.4379771295145485, 5.081016921614546, 5.054658035090756, 4.957032588064427, 5.106966219151804, 3.9109067311509325, 4.930050883927398, 4.903325504895087, 4.828615823961861, 7.480337497691879, 6.302361542129116, 3.996115501452859, 3.370367005429091, 3.0804358167348287, 2.7534982207700605, 4.721221031830235, 4.301529696116531, 4.904654591133684, 4.345189419199798, 4.734239999144968, 5.171859601567854, 2.7102807763146424, 4.565167370559873, 5.04472012323409, 4.870861008365206, 4.1166889767184225, 4.751624042717708, 4.374992889309071, 5.658950142844716], K Nearest Labels: [1, 1, 2]
Distances: [4.597539965676134, 4.763552933572175, 5.041127796132877, 6.386285309850226, 5.122648900096848, 5.365855104287498, 5.346388578762424, 5.3691036893425865, 5.062245189544775, 5.230618241520028, 5.365791447327029, 5.008217632268371, 5.245299401086043, 5.825835692167268, 5.953612597706253, 5.513751189791391, 5.337415704541902, 5.163241608281684, 6.363031003351444, 5.005328247804463, 4.3410145401431395, 5.208616197298431, 4.998657567649376, 5.025988037093466, 5.3965807158014485, 6.344101514961872, 5.537510130955822, 4.70843910906168, 5.545469984976873, 4.706261376687947, 5.691901818519751, 5.222647239538655, 4.074911398915221, 5.37711951632553, 4.67928792415196, 4.9167681663992955, 4.955058202541587, 4.717511335744397, 4.165379390471441, 5.377832503479485, 4.122638531017977, 5.463801256877586, 5.89344245426352, 4.910282540549287, 4.003449649060572, 5.943602536201021, 5.565459938382681, 4.8654860617259565, 4.636036203071176, 5.1647026286416695, 4.737906267548062, 5.3821697128967925, 5.6924755898568415, 5.26124769200013, 4.257173333544643, 4.550246445527371, 4.642443183899068, 5.364142605870454, 5.472956857786768, 6.149026533744851, 5.646413833822673, 5.15460472460583, 5.10081631087193, 5.357728228227671, 5.074553631178515, 4.067716719236641, 5.2192875226951205, 5.659188934117326, 5.350935447912711, 2.759396743581679, 4.2506245563963745, 6.658211352663715, 4.140419995609274, 5.011680681163367, 4.894867992628746, 5.422003550100674, 6.09642625554543, 5.27517634762011, 6.084544774921296, 5.948619781634773, 4.941886202944416, 4.1587631945951795, 6.0918636371128585, 4.854027177934105, 5.101346016958723, 8.145714332579317, 6.583689849385254, 6.704774947057036, 6.44818065225382, 5.504634903188839, 5.445319288919431, 6.707947943111557, 5.2784637754512085, 6.328260519749845, 4.526800505660377, 5.675579744684203, 6.270965925118434, 5.870364066572725, 5.612986447549729, 5.937797512190698, 7.126939770072281, 7.630509119962469, 6.400244152365442, 6.333979697648488, 6.3937841889057445, 6.23165119681576, 6.940723398109765, 6.467036377813678, 5.445714145851682, 5.494085934182952, 7.851995819018562, 7.338150668395314, 6.423343128838412, 6.257454207001986, 6.403596150193704, 6.412553320970458, 6.115085351344348, 6.234659011470631, 5.210209896109662, 7.113541001111236, 6.742673714148641, 7.234943442982719, 7.566076973274001, 6.9114138605523205, 6.738886354725118, 5.9182471245471975, 6.0620204959547985, 5.454014339672896, 6.683643658582138, 6.8907419946916555, 6.412337186422331, 6.595127735003387, 6.216323393767, 7.30519965666962, 5.949565987437296, 7.018775892264925, 6.6464658642236225, 7.408657502169314, 6.152340050113658, 6.105412443547413, 5.44492176265844, 7.696399192122451], K Nearest Labels: [1, 0, 1]
Distances: [4.981062541915964, 5.037555316622388, 4.040045097195243, 5.95912973581439, 2.918253043983793, 5.343611738020874, 4.97201015991623, 4.676891759374356, 5.059852161285283, 4.861080553749888, 4.996058513116592, 4.778632960380102, 4.617083348238765, 5.759457289885159, 6.4124367554691935, 4.82491748031202, 4.680267374853222, 4.226949965882061, 6.106060722324785, 4.181815940992991, 4.592362298319192, 2.774612727286326, 3.9830669479635445, 3.752683156780701, 3.2506403334721115, 4.0830323013543675, 4.332055383461346, 4.478953918803174, 3.498977434404362, 4.310529825267254, 4.337679725302619, 4.99603534867139, 3.4148131479783195, 4.723728364926752, 3.788154340695523, 3.320857226606333, 4.15901927747381, 3.8448503443962476, 4.219453748485429, 4.888683653526923, 4.1180347046301025, 3.484335984703658, 5.039731000615621, 2.8727412734605013, 3.8754871449810246, 3.923080579035281, 4.120760696714407, 4.728997162698349, 3.938500790955639, 5.019833095952925, 5.735846638813919, 4.6815412722426, 5.307900070079593, 4.6555285660377415, 4.688308923190587, 4.314942184393564, 4.687030203484859, 4.352337571696806, 5.316925512807281, 7.388697285116696, 5.4296957534605195, 5.199098471430046, 4.6193874851758645, 3.9298402924375435, 3.932051920239226, 3.4293750436407517, 5.094

2590207100436, 4.450118142811118, 5.0466190277700145, 6.237620999656911, 4.816368003573399, 3.6042361287990956, 3.7046513195909934, 3.6114981180364523, 4.796122353240659, 3.0871940878528865, 3.984941959326654, 3.8378289925120876, 3.363229944980803, 4.151196423832512, 3.9101254798709415, 2.9196418499894783, 5.023332176134082, 3.167986360444126, 3.0628914177177395, 5.403702687595661, 2.419984724494285, 3.294102837928159, 3.7256288042814742, 2.999548592364647, 3.4699244901012616, 3.688142099107925, 2.928085400377608, 3.170583693058089, 5.758063738065661, 5.176168789371899, 5.5324088546965084, 5.000206802052756, 5.4634284816993315, 5.528024547147083, 5.319441113400417, 4.774305102354422, 4.9770543741396605, 3.919338900991481, 4.684991129068027, 5.178600172419698, 4.714647124710481, 3.953433555699038, 5.547915352424863, 4.9101898660973635, 6.323346197471486, 5.384836238309579, 5.248295861802575, 5.735602060992887, 5.963787136761529, 6.30353162408805, 5.336188782357657, 5.97827250263627, 5.897714450243995, 5.453164646909622, 5.457092969016495, 5.396764514481622, 6.662107332771347, 6.043190094615507, 4.993084654594004, 4.577414832645289, 4.372827415725003, 4.982699758635148, 5.79749740316401, 5.107513450294545, 5.347712958972739, 5.761737816362857, 5.186883893529709, 5.308624377601792, 5.32194640129188, 6.408567761161141, 5.891926448228407, 5.514554183718433, 4.720686613291852, 6.013985610871884, 5.823417986042083, 5.6119073029781035], K Nearest Labels: [1, 0, 0]
Distances: [5.901791675041348, 4.361876836285586, 5.534285386684822, 7.131754617165164, 5.167262100329059, 6.243896770125324, 5.4880321787886155, 5.764791103498562, 5.1876198065127035, 4.860304821327175, 5.811993200946692, 4.691645142242743, 4.797119700666609, 6.287859540942816, 7.052773706982614, 5.584498765436534, 6.223510421887416, 5.484050154588993, 6.84394870462287, 5.287414354961773, 5.163723271074413, 4.681811417705304, 4.2843747011517905, 3.7113191055787578, 3.9627071327236263, 6.355472102341282, 4.931796202223024, 4.1871814417478355, 4.906777731306378, 4.3750935714499954, 5.608672174368565, 5.607422599979709, 4.0799758887333075, 6.067396704946916, 4.654170112062323, 4.087210081880168, 4.797866140134429, 4.06745524282987, 3.337859816004316, 6.505448971593379, 4.989847885551617, 4.594584495176674, 5.632175021609587, 4.630834947805878, 4.164249678047894, 5.891944357098187, 5.633117362229305, 4.946585733719057, 5.066702814304866, 5.667948776692468, 5.352755208691955, 5.134379907411609, 6.048598710869166, 5.852321809726908, 5.008578892184836, 5.430505027903106, 5.450980328502924, 5.25006732530725, 5.984512141319871, 4.9715038973252765, 4.628812890202397, 4.336264453416341, 3.118504077163073, 2.685276436547184, 3.2138734091818106, 3.3915018798952974, 3.4801837832582208, 2.1278667806305673, 4.846097988293553, 5.602598888660688, 4.511530496556603, 4.164175986021585, 2.744940497357314, 4.070529893112245, 5.8456835157497435, 2.8344167796548234, 5.051196569235166, 2.900571999425321, 3.212722045675449, 3.0763015863788294, 2.3947252847557823, 2.723068073075402, 4.790139117059431, 3.4423838462420893, 3.8086196667405834, 7.362591771611239, 5.414174144692222, 5.584867137152107, 5.329564811745928, 2.818247008520718, 3.7383965883877246, 5.281669158278371, 3.309428255590099, 4.673014621102168, 5.418318864321516, 5.475114399370801, 5.764132558630252, 5.572200147695646, 5.158084110336013, 5.826736840505336, 6.5940828591633665, 7.047970038129905, 5.7427228001442225, 5.363303609030252, 5.649036423857847, 5.3745291499241326, 5.91783000312288, 5.6525781336984116, 6.207391672378068, 5.938325509058683, 7.17221233454946, 6.746803972562334, 6.310409963371196, 6.873786520077889, 7.156999049554248, 6.95538274592375, 6.453507783939473, 7.091028839005919, 5.852823959921113, 7.342373057526162, 6.779389114180992, 6.965317445544839, 8.149426305788706, 7.118809376622974, 6.121513301017306, 5.75296119719163, 5.773528140179351, 5.742752856411803, 6.321141856937789, 6.365795836803626, 6.896122779279463, 6.191296500478054, 6.492852972269063, 7.314794064671281, 5.464790481281719, 6.420652151640918, 6.629839457549877, 7.421234620014216, 6.378688875920083, 7.39792766551223, 6.890957880995297, 7.606895981930667], K Nearest Labels: [1, 1, 1]
Distances: [4.33299834279563, 3.072618808030696, 3.5538409270957176, 5.339328687235118, 3.8526853039511657, 4.507529564887177, 3.4808955041189016, 4.111089793529516, 3.541639450924909, 3.1065871877976687, 3.9393723547118045, 2.8009130548298184, 2.806015468706948, 4.827963888079645, 5.325210243583706, 3.9967454096669486, 4.458084047177453, 3.978850304494797, 5.163393644123321, 3.568827381414423, 3.9015781542354446, 2.865635027826823, 2.556731641268861, 1.9832819463591387, 2.3023358903115394, 5.320602289593127, 3.0895812

163870984, 2.4290050944617576, 3.4977599498915874, 2.51696107074141, 3.8708247692842614, 3.6944974962576493, 2.5543511333541966, 4.9667461806897295, 2.9126569804241145, 2.1823195150242207, 3.447509832209175, 2.355924807272345, 2.022525769051294, 4.95000567659092, 3.587014579872946, 2.6407188935513872, 3.8358847390274238, 2.997663776205386, 2.646400089509136, 4.08227699208018, 3.807498246541276, 3.2207324050687434, 3.1416315969361572, 3.922221294748176, 3.774610999771971, 3.121038255627486, 4.610579500305022, 4.19777732322835, 3.320538214721012, 3.637926285386979, 3.8717920297267554, 3.44234785761956, 4.1959775272502995, 5.543174933076767, 4.879271531735675, 4.340191658708675, 2.8761894738487097, 2.5985890605258772, 3.6405505777416254, 2.3899776505683508, 3.057554178713219, 2.1636426578615997, 4.576133466931683, 5.436507957003359, 3.6819422238288535, 3.4610416199833853, 2.6557672894786295, 3.080723175601917, 5.098756967824569, 2.4331106968332286, 4.6255586865622424, 3.167748000187033, 3.071644437185124, 4.199458223554033, 2.3821333142421253, 2.6181709437677263, 4.255079411537643, 2.7772670642877793, 2.8915085022345846, 6.716951857373909, 4.587316438221741, 4.413084140330854, 4.213160267270873, 2.4715936186271903, 2.991873276847625, 4.8736789238192255, 2.878536041290735, 3.722845102456556, 4.687995773029959, 4.475746613444469, 4.84932722205931, 4.580722868976966, 4.6710086765852195, 5.139236736164533, 5.746670862228949, 6.255627619688304, 4.93206535641488, 4.68446132072322, 4.782006635259695, 4.196300090402241, 5.1267923473713175, 4.625050787260064, 4.949487406258862, 4.7660019653414185, 6.201585944261406, 5.571889938645011, 5.06160927340035, 5.659189729851024, 5.913331219245625, 5.776721707261969, 5.440319950385627, 5.894344848151698, 5.137042992382447, 6.138831626054725, 5.474262014346799, 6.001685502998193, 6.808119137425975, 5.870651950227705, 5.214067705185895, 4.781341087631018, 5.00927420162295, 4.6523655540715465, 5.146451036725916, 5.340245028405437, 5.600216703016226, 5.042332832267288, 5.096807269445995, 5.930551200614259, 4.747894623237811, 5.6438920435139615, 5.283177581833049, 6.086293659612625, 5.02668512852317, 6.070401306120221, 5.7036671211489525, 6.342670923791257], K Nearest Labels: [0, 0, 1]

Distances: [6.421520203199345, 5.472683126840519, 5.201356367730481, 7.308116877117528, 4.480958722540193, 6.372559641261958, 5.537441209396488, 5.5530982593723985, 5.831816152125287, 5.534475864690745, 5.967889619415149, 4.6229234384784235, 4.714310539154972, 6.707635669354526, 7.457128270249206, 5.3209171723750694, 5.706135716609849, 5.096966348367962, 6.832624133725026, 5.763044970379243, 6.13547810636846, 4.491308937663774, 4.7460549159385055, 3.6229916017874095, 3.6687425763739765, 4.9605741354770565, 4.662238181557675, 4.301122958909556, 4.480046813840402, 4.925488175421961, 4.856993694842292, 5.5310911832327845, 4.099710439861382, 5.5949568886115015, 4.117200309815766, 4.134651636348482, 4.523052235945074, 3.5761808580122025, 4.13646454846591, 7.18355164382742, 5.740296514547233, 4.728954221535243, 6.016016889434165, 4.959667355093998, 5.084197518365381, 5.788341753680173, 6.128551359075738, 5.838591205667525, 5.014267626379385, 5.983845725242724, 6.372433235472765, 4.967811201664365, 6.64756445849664, 5.480877402049668, 5.600661269377274, 5.429578174190377, 6.088097856158513, 4.974040542553941, 6.223044538208989, 6.517371477269406, 4.287422357001358, 4.595128225160988, 3.953392394050288, 4.20250286084734, 2.8387194873323343, 3.176913094914308, 5.42937482128116, 3.3726155515798446, 4.5402810785581815, 6.88212648753496, 3.694250385610542, 3.724916570063245, 3.8384792959674163, 3.770258068747198, 6.740495522065971, 3.365810141773664, 3.5922243781983987, 2.1542751831976723, 2.4751422700782166, 3.241145844045021, 3.030544735944765, 3.024349446573232, 4.9875104556280245, 3.786935311270668, 3.962421674333357, 6.5335773955538645, 4.210019719957637, 5.7599803675906385, 5.575508111388806, 3.289877632104844, 3.8648430561261997, 3.2339527389801668, 2.7081686857133116, 3.754935170871347, 5.3420652279062555, 4.938877471615007, 4.735488394421325, 5.076569364397113, 4.456267632227025, 5.101312142345534, 5.206063227238543, 5.550901208877338, 4.986674581014515, 3.8939051421512767, 4.173290533824275, 4.487648442394998, 4.3221254619876355, 4.9445866384495245, 5.929995287563031, 5.160748219259204, 6.4444098234498455, 5.688960861761521, 5.420919775373327, 6.335897835968802, 6.430136280375245, 6.4546296748415894, 5.471537564341825, 6.492417817065579, 5.330808917591569, 6.324951805598129, 6.125036501804422, 5.132272750611604, 7.2188002936091955, 6.176075103074676, 5.323735780488424, 4.756305440004391, 4.472496997531533, 5.113858792630544, 5.481

990893525701, 5.3715969711103995, 5.894813781888227, 5.537685331938471, 5.119814739866198, 6.174047460427726, 4.81468219512951, 5.780717750737485, 5.777875860656741, 6.475740488884511, 5.248212424360284, 6.891393083111413, 6.178011828708315, 6.273265521325951], K Nearest Labels: [1, 1, 1]
Distances: [6.653598192296698, 6.0391613642651665, 5.559205101688377, 7.349467667725129, 4.673439610788562, 6.414295075903257, 5.7805701230213415, 5.920752490422145, 5.8408621740222655, 6.08429136591597, 6.553443449596751, 5.341404722564076, 5.383135995175995, 6.643711693450365, 7.570034236382085, 6.045072233962103, 5.794641364564885, 5.345890523160144, 7.16407895090891, 5.81713536371266, 6.503024885021522, 4.601018914483576, 5.666327531534693, 5.169711310441547, 5.054453228562863, 5.697856233191328, 5.195868371488951, 4.980545124640903, 5.407486414628653, 5.458784502984787, 5.810608223110379, 6.147767232871157, 4.537156880423098, 5.9976524646041005, 4.945271907725047, 4.985776509198487, 5.231101234176626, 4.690264700173862, 5.115182893143303, 6.568438920334876, 5.733055944255462, 4.164031487672329, 6.547543756470154, 3.9086491852429304, 5.34435988813855, 5.00293988535817, 5.790060516745467, 6.045443848548886, 4.994038110879716, 6.0275645350845055, 6.774815278150062, 6.025770069875602, 6.840603402040575, 5.761722710340031, 5.82946876721061, 5.9020060714430365, 6.120545787772964, 5.543795130963892, 6.634796152175967, 6.925609233215685, 4.624513634759347, 3.9172138582396068, 4.748062360090713, 5.9394882048161595, 4.516505373311519, 4.422631685716125, 6.137564364298264, 4.974765037822548, 4.609774648001162, 7.719044379609604, 3.7479131513483313, 5.703850202573055, 4.269111191777658, 5.428989021319726, 6.34172445142816, 4.086575650956151, 3.9416473907955605, 4.372517630645454, 4.040622749557931, 5.631343742763902, 4.51762879328906, 4.153165730101224, 3.2952705005481273, 3.6371794169597242, 4.730631359185311, 7.2020998862040395, 3.6570285824843274, 4.1902942927983835, 5.507841592105205, 3.98817330944937, 3.999812846983699, 3.6891700318955425, 3.561627679124816, 2.5772273579696012, 5.20237910349678, 3.911063523021922, 3.8857999583054634, 4.281559668885454, 3.3142169883034214, 2.8570186687563965, 2.876739201824561, 2.6922897080771624, 2.168706348444929, 2.8329593368120904, 2.8216090540548553, 3.440980358022627, 3.038059101355906, 2.394046267986272, 4.295758778982162, 2.84920595931222, 3.6876097771945244, 2.8813962692409345, 2.887566244089634, 3.9881764087393523, 4.96428685980818, 4.9438641226420765, 4.792890438214434, 3.438146523795426, 3.6718088480867, 2.5816088721193817, 2.949379353020319, 3.2184256601890864, 5.600771669808641, 4.551462009470487, 2.7885789350276617, 3.0589637337960283, 2.4402432820324016, 3.1562298804358426, 3.4120425060100112, 2.154901003565824, 3.809534816564882, 3.539083860821701, 3.6460897435015593, 4.575354962009841, 3.326297045235451, 3.8304353204364436, 3.6563910591753883, 3.128481614568302, 2.7380806584269735, 4.256965075518703, 3.944489497821981, 3.410042328987372], K Nearest Labels: [2, 2, 2]
Distances: [4.921570714800028, 4.418453586483245, 3.8398814747569197, 5.946318080975877, 4.0010137109873085, 5.486258036811371, 4.645730472049294, 5.0895052389138895, 5.047046149082004, 4.331470025826252, 5.368299909883487, 4.555690335387705, 4.381832464617082, 5.9262589212749415, 6.244394816677152, 5.123914720934251, 5.163442069417259, 4.903130064827455, 6.409333067849822, 4.18228145022688, 4.673053782700698, 3.4934725748133064, 3.9996427442980207, 3.122103680320633, 3.4229281955115582, 5.123524220656354, 3.904241381084858, 4.137169418341286, 4.424413863833556, 3.9929523613834723, 4.6547141136327195, 4.875077708606536, 4.079679833603491, 5.801735558509699, 3.7910218684453896, 3.45094984601114, 3.8208737695707438, 3.513429610163547, 3.9554780268858196, 5.364996028094643, 4.070932747880266, 4.457482703067679, 4.400636865256875, 3.953053720091514, 3.474706541850108, 5.297295746478934, 5.168362979290408, 4.2857807527545, 4.26490352389155, 5.241898273529044, 4.679692770777884, 4.273962819769152, 5.412254072295608, 5.077695237982026, 4.22320036292492, 4.044577926182893, 4.647742257587039, 4.285210625645661, 4.677382612000707, 6.680697699544734, 5.857021918974848, 5.32402821919705, 4.9664129103723536, 3.6307167665013327, 4.514760796658985, 2.7561926124207035, 4.537566130276539, 4.026682000301976, 5.408291834663739, 5.6860420417145505, 4.070579603217035, 4.5134990198475595, 2.9479259125785062, 1.830269876636452, 4.794942937244281, 3.3463277046756876, 4.959039753918172, 3.1406115259620018, 3.4285369986613174, 5.2796638325048795, 3.1264168107243457, 3.2271768186689824, 5.1588726260326405, 3.694262806339451, 2.4862158672816963, 6.1793083210911846, 4.755800064081148, 5.245125465286426, 3.8810207370787864,

3.219981700613288, 2.9487734956150944, 4.765079786631476, 3.089368659701748
7, 4.3443746143453925, 4.639576270995298, 4.822491396325514, 5.072060739138
8395, 5.029274222332821, 4.972812258248401, 5.749790471247126, 6.2062609221
47435, 6.763940114111521, 5.991263162829649, 5.222067707811556, 5.067155425
544698, 4.979132379467989, 5.754461405922853, 5.7916231564834675, 5.3323757
37841326, 5.298651411656616, 6.993826748263433, 6.0444338588491675, 5.46215
518851765, 5.956745644739827, 5.852740341817667, 5.577832841039634, 4.89009
1380992522, 6.202105699628473, 5.2307609924824146, 6.743792150090642, 5.978
097532177753, 6.237393718969437, 6.726339895876758, 5.71544476798029, 5.516
2420778917, 5.657435695910267, 5.494822415292642, 5.075402547212909, 5.9307
20258497618, 6.31896190030963, 6.123630119750052, 5.760049500819694, 5.3007
87816530089, 6.090280472005814, 4.9926843176141835, 6.062029819394673, 5.79
2911672150139, 6.867771398158081, 5.530149404265467, 6.527685545049257, 5.8
66250318888957, 6.73170352999161], K Nearest Labels: [1, 1, 1]
Distances: [4.552838925208391, 3.409154485823083, 4.543868556612521, 6.0816
34501357684, 3.8805674469174694, 5.128408650406934, 4.228379060209601, 4.29
1281276943555, 4.160485264753566, 3.9183708679239815, 4.907228574452081, 3.
5260239470047394, 3.8130568976158785, 5.499917561424376, 6.189822296450088,
4.417666972402084, 4.899793108319832, 4.344601349282692, 5.941581368047812,
3.97904574549456, 3.9657060137412246, 3.5903549482674966, 3.101967299560340
2, 2.5213294216154423, 2.749020010987698, 5.182666855765253, 3.781263964945
136, 3.195159584722522, 3.6940999469940676, 3.2471242210913385, 4.675836399
615496, 4.635591503604805, 2.887933556803529, 4.788850935894591, 3.18827962
89707764, 3.0192047986147084, 3.355644161349129, 2.8644224984278965, 2.4375
65247131146, 5.24213429270602, 3.917426384082273, 3.8544095814467543, 4.526
913002600443, 3.660361160692462, 3.2610762420304678, 4.698010527027845, 4.6
99670693784865, 4.076493907751784, 3.979844789932204, 4.754461089278029, 4.
8536437430694495, 4.076407053685772, 5.129563132781108, 4.5831292747539125,
3.6966677403954016, 4.289961363506585, 4.245529721643468, 4.152188523928920
5, 4.956352869447238, 5.071683664082872, 4.108920808128669, 3.8496688578006
5, 2.520509335792893, 2.9738018855812602, 2.6414417645156716, 2.53999940841
94466, 3.7500598775228116, 2.414890100499117, 3.8042745984383677, 4.8544232
77415505, 3.5853448415362896, 3.728017906911268, 2.5634029319443052, 3.4750
22556486172, 5.742659501859904, 2.5537594666921994, 4.2985400288464914, 2.7
8055721098657, 2.896853786140998, 3.9292562693441617, 2.3660572552684727,
1.943910010981485, 4.389274621052055, 3.216112502707337, 3.349013275360579
5, 6.858610228140347, 4.770753181297135, 5.272491374752449, 5.1667515151669
64, 2.740237066934854, 3.4042303824236324, 4.915429128403472, 3.01947243008
1915, 4.312589473536025, 4.228930897130813, 4.513954499825894, 4.9497082721
05869, 4.742946822152312, 4.560714877396826, 5.149005636914123, 5.942001086
823762, 6.444041311900971, 5.040577966265374, 4.508394589545023, 4.59909987
9347671, 4.357955525662666, 4.929325858214836, 4.883430509127575, 5.2911885
66654735, 4.994761312799874, 6.509662519592052, 6.022271209672557, 5.466948
621564696, 5.956885286014178, 6.049097888951262, 6.037416283976999, 5.41898
3654314266, 6.287790214813503, 5.073732182462762, 6.645350008970979, 5.9516
33638766549, 6.2329098544818144, 7.296964742183079, 6.347870002994895, 5.56
5936676348854, 4.622877028878167, 4.814679502134933, 4.670144257427673, 5.4
998979110664825, 5.6607836975364965, 5.918177848318658, 5.505288219866901,
5.377718107039766, 6.260117750727565, 4.694295744526012, 5.793439668214139,
5.618594295249729, 6.555260196925845, 5.409933772009513, 6.385528485415903,
5.771096182235144, 6.6825868403161435], K Nearest Labels: [1, 1, 1]
Distances: [6.175530305507214, 5.274762759135494, 5.200895316333191, 7.3447
34554388763, 4.317918567048561, 6.228292486543868, 5.56878611953325, 5.5127
44384621345, 5.559471291180732, 5.527559388929085, 5.878368535296306, 4.551
0470959126295, 4.766733714966145, 6.4731257017331325, 7.303036676014816, 5.
300537925440079, 5.558428871327709, 4.91948748650477, 6.802171446473547, 5.
524079937294029, 5.778470821375398, 4.387955250491679, 4.795032380823384,
3.915315818313366, 3.975972643064822, 5.0812477462944186, 4.88462296948049
4, 4.2007547344318095, 4.584593222330019, 4.856928400832943, 5.010547051618
6665, 5.507559554053644, 3.7087849515501503, 5.394318058696605, 4.053669104
781259, 4.181281196041979, 4.452466496622536, 3.570320208908865, 3.78696088
71323575, 6.774707160716904, 5.389071590003121, 4.495593135560548, 6.149089
622514764, 4.517951893355094, 4.7992239500058, 5.611321702159404, 5.9179125
0214501, 5.660484144576605, 4.764619560675739, 5.765599340104945, 6.0827596

91344521, 5.111318421476738, 6.5575916225675615, 5.417047500113541, 5.3078403984223606, 5.287292480651462, 5.8244715991526546, 5.043513436458521, 6.216894502790708, 5.890202207558357, 3.678213267499934, 3.76366920891154, 3.426926885679676, 4.161147585756264, 2.0936343328284672, 2.8227840137774116, 5.127906562083665, 3.3924256815558684, 4.107377128631552, 6.014376902990583, 2.959084422722415, 4.106714683994122, 3.3039036810912203, 4.017167005546612, 6.154757737213101, 3.1361533125050567, 3.353797224863154, 2.1930934684548853, 2.9047474826838773, 2.9355981131678153, 2.884657266730887, 2.3146288357607694, 4.386856043510737, 3.2593722862642456, 4.001671361757711, 6.755104143253958, 4.054359224364925, 5.380939664329806, 5.5379749775153675, 3.231447558496443, 3.7795744090288226, 3.33994322097315, 2.523012374495207, 3.5720479830093543, 4.632426815272228, 4.318562184425581, 4.306859056520409, 4.493644610044224, 4.008020949920569, 4.472274820387898, 4.738583118813235, 5.084695315775215, 4.3720564893553275, 3.6618436435643993, 3.9779049098541517, 4.323891978111135, 4.094937930692919, 4.374599703055314, 5.29121913642709, 4.4945171873987775, 5.91071624534609, 5.377441686799617, 5.0122834912399, 5.633202858042705, 5.861741304162215, 5.958423067556984, 5.130305796276095, 5.851299675137499, 4.657356235115664, 5.726581375149595, 5.593209115975007, 4.9677098995605125, 7.063680197373174, 6.024006791795141, 4.924510039090435, 4.1903260896472965, 3.933366246747881, 4.444198892823341, 5.048747763652039, 4.764663765177167, 5.338279916572078, 5.104117177598468, 4.806391576360652, 5.9150020294588925, 4.2669164617555815, 5.383971073925505, 5.44121599999514, 5.970310072698962, 4.727314167071178, 6.1617316667622575, 5.507795144849113, 5.9610374308388545], K Nearest Labels: [1, 1, 1]
Distances: [6.555646129754338, 6.01079964366289, 5.424634905998405, 7.599012221590488, 4.350648846646637, 6.806205153092073, 6.058063698659063, 5.649100563451607, 6.545389801458987, 5.983945656149637, 6.341777491653832, 5.2945793288486325, 5.373877827959561, 7.411619306723994, 7.975681952601558, 5.538154384660053, 5.914015080617222, 5.347653163169402, 7.2144600007987565, 5.879710614334551, 6.289017193575896, 4.410650453963036, 5.051342206015797, 3.938376855867541, 3.851670601097685, 4.4857761461041115, 5.153538924324562, 4.999766245162225, 4.5973244185159885, 5.4702250835594874, 5.158870142446594, 5.8990367643369455, 4.606515798307006, 5.5937660106689835, 4.386013591622392, 4.391388661773784, 4.811570600559343, 4.137813195665385, 4.823144071715229, 7.252307295355052, 5.988842343935839, 5.135272215346606, 6.375628507696536, 5.173762862174926, 5.447932820581936, 5.896860121420191, 6.466270893258419, 6.326601990292088, 5.468409764597854, 6.324562232926474, 6.958545288114429, 5.38113077716732, 7.0070798887873735, 5.734431395544805, 5.908364090937171, 5.615602166342565, 6.405747724425858, 5.333058694608805, 6.625781046573169, 7.365602989665152, 4.894627348212558, 5.242023117404829, 4.722435361421663, 4.701297332388619, 3.0412207023289, 3.7006732600698533, 6.179152812655262, 3.928956278457292, 5.138579708989734, 6.858527989196535, 4.220515302061382, 3.9337717024555428, 4.379335195616144, 3.888715507173329, 6.87290485448291, 3.799226315957214, 3.3356634265236242, 2.716805138390484, 2.732774283851894, 3.33708915092526, 3.4635138938205037, 3.0903171838928953, 5.626713078046282, 4.137240777114558, 3.9785413763682334, 5.837136190300401, 3.6514152546938945, 5.845031209765527, 5.560121662704892, 3.601834559159423, 4.316582778155187, 2.928711109365566, 3.0697291193079677, 3.941721039058991, 5.756571697762709, 5.266598601964942, 5.062823269077693, 5.317396898182072, 5.282053882064573, 5.609101595690998, 5.445858660533227, 5.429562504138593, 5.492440828190841, 3.950216742010464, 4.365843147044781, 4.946434849694135, 4.4543169180026, 5.233572754905534, 6.040598729690752, 5.5760419386453846, 6.894632206728814, 5.9002747660062935, 5.824187818848915, 6.459793628616492, 6.450305764293643, 6.5704752593711815, 5.5676566219549795, 6.8838267503319175, 5.833277500858383, 6.553049688300615, 6.529988616270896, 5.161588738649187, 7.485358158004062, 6.570571968894354, 5.6336803192822105, 5.026302490478133, 4.502798334242567, 5.430355771521383, 5.909143780689647, 5.696102703955502, 5.9354530206060465, 5.889983238330979, 5.264789348657259, 6.00246117559707, 5.126384894865108, 6.214267376170527, 6.277788734809686, 6.663633554538431, 5.469895648572442, 7.0084826228291295, 6.393932259435451, 6.437183532434583], K Nearest Labels: [1, 1, 1]
Distances: [6.126873572466365, 4.947301547018691, 4.884133801038965, 6.966986253000112, 4.090907084388016, 6.0391748421197295, 5.269722829078647, 5.227928844943378, 5.70099909023162, 5.340134798248649, 5.9989750568240865, 4.6

60234035325471, 4.6039661408428785, 6.586100704101054, 7.276108081021786, 5.248902642777367, 5.556867244113235, 4.931363901621353, 6.720880715611621, 5.260996189633482, 5.929843013649694, 3.9258127126753153, 4.57845877923885, 4.3435347349561726, 3.7568573768003546, 4.892013408598174, 4.143632071634437, 3.9585538207109723, 4.567812310972815, 4.749330326611788, 5.104225608128849, 5.408224659623133, 3.9315157812816808, 5.38805030459045, 3.965612119047867, 4.040102837979882, 4.168764017486172, 3.4047002104051525, 3.9254044391040055, 6.55697156661184, 5.256442242636288, 4.034350765996681, 5.688955701402334, 3.9789761015932377, 4.504039964289637, 5.135161173258862, 5.751966931181364, 5.520209945401895, 4.855801671153098, 5.739010042538759, 6.112745834436905, 5.119994292503149, 6.24360364150862, 5.161845463976867, 5.179563871876311, 5.276940557106765, 5.751920830458101, 4.629408071740807, 5.931814813553339, 6.137444520835391, 3.7799149388010287, 3.8202012448665528, 4.0844897421298025, 4.47041870609817, 3.0452873148130197, 3.0368695422110275, 5.376301748618473, 3.391380745915332, 4.026103077635637, 6.748203816931391, 2.992670225959446, 4.7495315351671685, 3.184946651031696, 3.45190346786538, 5.986975037332681, 2.9286215832181433, 2.8256194652592805, 1.9767563076309418, 1.9728244332725016, 3.8342019657298705, 2.602699111850879, 2.8326416423382716, 3.801309877675727, 2.7674293488955217, 2.9448645364342605, 6.229795926659942, 3.55050886295011, 4.885757176380372, 4.910562577660941, 2.4725430096252174, 3.0990161211302727, 2.8721786765807193, 2.3947226953633027, 2.404927930322196, 4.782359280483535, 4.182657818891513, 4.1438755101550475, 4.429365511914806, 3.4079889046295246, 3.8366722474269226, 3.966264726278761, 4.4663027389186745, 3.9670334808014642, 3.0944240872968414, 3.115528348693597, 3.6367161738751514, 3.7577797205038252, 4.043472883525426, 4.72092785268856, 4.017190112389622, 5.552515146897924, 4.4332599786749975, 4.376857301474352, 5.322039200360347, 5.814512351339319, 5.61238468476899, 5.053592281066843, 5.295193665627167, 4.259451143573635, 5.078651968532281, 5.0978959616709965, 4.14851415336747, 6.786141032359717, 5.534525583261749, 3.982967914961463, 4.038202088682928, 3.398307581613383, 3.9334028717847507, 4.812740644247754, 4.517789327462519, 5.1995845150869915, 4.554015701116332, 4.577403592535893, 5.488665570149441, 3.5628630282942124, 4.752255491252333, 5.049450298534638, 5.330500135474061, 4.333803421346184, 5.764882274134575, 5.077180469543082, 5.4789823236288075], K Nearest Labels: [1, 1, 1] Distances: [6.475583832169807, 5.2468123387022905, 5.334372973530294, 7.21641690163938, 4.896974601054361, 6.474633739305262, 5.437684155679623, 5.7319823208633585, 5.754162092108265, 5.3775922942851, 6.111827443525942, 4.789962887253738, 4.794873298448938, 6.775230066742283, 7.544493590291046, 5.812383855671335, 6.106540921306898, 5.5007990957938935, 7.076371038817335, 5.817818061665195, 6.1801004193849, 4.537783385006902, 4.596088187420146, 3.6083948997718855, 3.7099053417447236, 5.619065105504409, 4.544815696951404, 4.147058757281352, 4.875877185013401, 4.688213169980745, 5.27991488656574, 5.684821615686403, 4.342842344324802, 6.093458937594024, 4.525003117949091, 4.092367264624743, 4.956465317618482, 3.9455227728947424, 4.1706996966014716, 7.15193433008987, 5.656567064959262, 4.312819230085686, 5.879533109462945, 4.639028537083308, 4.740985905876364, 5.637021592636764, 5.9351449864486545, 5.559362714307115, 5.150873436221172, 6.077193809714185, 6.2888174892125495, 5.226418494331249, 6.59023239549414, 5.795883369856708, 5.572967870225543, 5.584827651254183, 6.031030379749668, 5.194174425162608, 6.241055905024436, 6.1765904682758945, 4.687687915925548, 4.638837260880369, 3.985103618230034, 4.126537619169293, 3.8410360004246122, 3.7479965565922004, 4.932520611503399, 2.790632706892036, 4.749468594705795, 7.1524014585320375, 3.930505557910877, 4.170713146805728, 3.1585218181178876, 3.7839430548918265, 6.2934506873183125, 2.8416417027312306, 4.3297903896935885, 2.5369525494201604, 2.003674414004826, 3.7856105616464046, 2.2329200092547343, 3.082626901726173, 4.405164393314716, 3.0998249601352375, 3.4780401609305365, 6.820760781014826, 4.241269384830891, 5.13004419016251, 5.006755912590354, 2.4249304074271767, 3.2126698522756074, 3.5701903295890234, 2.303359699007126, 3.234049642402407, 5.668806932144397, 5.151172165040251, 4.9104951685582945, 5.301813269734499, 4.2885268312969975, 4.990428262626252, 5.26083327562905, 5.647057946066809, 4.803104784032316, 4.078740137273922, 4.2605949758101165, 4.259588485728834, 4.611023811048437, 4.859686662604258, 5.899712857652164, 4.945685438455444, 6.2190805690102975, 5.460531469548827, 5.267948165244642, 6.445450338271792, 6.771923857794671, 6.589487757600245, 5.8401705989

62146, 6.376277961083437, 5.210315077004428, 6.1638017980012245, 5.96143355
3630581, 5.228298415955445, 7.271558216053228, 6.164623415012145, 5.0647137
645683635, 5.083139599350444, 4.6891794678256575, 5.121018528923457, 5.4899
99062440165, 5.288508646523736, 6.276975679656725, 5.502426643712345, 5.459
555547709623, 6.4418942118934295, 4.719206988551642, 5.6289789205736716, 5.
773474762639859, 6.373179323009036, 5.355064081684246, 6.940809850063051,
6.287005199452827, 6.349466811766673], K Nearest Labels: [1, 1, 1]
Distances: [6.364007896175228, 4.974421497608814, 5.331684172805328, 7.4857
80393884213, 4.7374479559550435, 6.306899693283048, 5.398338928810062, 5.79
2783946781293, 5.479700565186198, 5.621553710531569, 6.305133559697905, 4.7
31857202633287, 4.785363196473847, 6.20836965282693, 7.257909891643173, 5.7
21393306826422, 5.994526531164535, 5.377488337233999, 7.093676160031401, 5.
620268222357815, 6.098640498382174, 4.5067078269007705, 4.94535845105401,
4.094447212362072, 4.373333050347225, 5.747117558706918, 4.682404577961747,
4.2164303337148406, 5.058395104132627, 4.8461156120869, 5.661212999362484,
5.92297942494659, 3.8732702314916465, 5.9007381220733865, 4.459970410670190
5, 4.617661779158705, 4.490124399015907, 3.8272223005185166, 3.898815175005
8995, 6.7334841596370145, 5.442434901632439, 4.438023161063888, 6.154078952
975342, 4.291561399181331, 4.815820341252958, 5.718973550471772, 5.95955881
48472105, 5.698464640380039, 5.001601775051133, 6.008051932653562, 5.952975
853306778, 5.388636238855505, 6.587318161301797, 5.627390564259255, 5.48436
1986179111, 5.774695087803466, 5.985227250314695, 5.170473063413961, 6.3863
889698985625, 5.382993250377533, 3.320048896412436, 3.284013012460019, 3.75
3410472279859, 4.6973995953764485, 2.8180079174219133, 3.0494860614924013,
5.008795050991984, 3.5759032250971647, 3.933149006803954, 6.60519077504826
7, 2.8323614083624817, 5.172147819426245, 2.939168955690627, 4.142429086506
192, 6.10829066839933, 3.3095035197306784, 3.321375111323789, 2.45392459815
71707, 2.9937048348074136, 3.752077576133238, 2.9035234921446302, 3.0838145
746601127, 3.261523539266028, 2.76546636030991, 3.9239624187887148, 7.36123
0090240918, 4.446058481169867, 5.192413895922701, 5.408853023058756, 3.1220
203690677106, 3.5527547705487197, 3.8148117144334406, 2.8485599230142675,
3.09770036371836, 4.680526738956269, 4.212798921379669, 4.37588007084616,
4.688136958856566, 2.8680586716557923, 3.559496466092904, 4.09082542623349
2, 4.831997018914182, 3.618021169442017, 3.7465834480466507, 3.440709869171
124, 3.845679662926969, 4.052577262494253, 3.996526249993426, 4.96552107020
4588, 4.001253240637812, 5.239994227270877, 4.749684031526806, 4.5105538383
03745, 5.461098081950769, 6.095730213620167, 5.875521177492714, 5.487404110
9235465, 5.052627219694351, 4.011377856859059, 5.10270087246311, 4.90496462
6428537, 4.843406260688186, 6.9796972407977504, 5.675044368559919, 4.272306
409967964, 4.0443227280787655, 3.632738017732066, 3.8915241755443373, 4.763
110483676512, 4.328286163327266, 5.413262517243767, 4.6005570781716765, 4.9
10470813835975, 6.127068759015232, 3.5669195948816306, 4.67320505993617, 4.
957722431006014, 5.426003185430885, 4.567509380162911, 5.872150990487895,
5.128726056400173, 5.707519151657668], K Nearest Labels: [1, 1, 1]
Distances: [6.316424913153761, 5.457604742464897, 5.291458287798844, 7.4859
34859498921, 4.4581346760048755, 6.493439347053855, 5.576776472645138, 5.67
6011241264656, 5.876937330854282, 5.668602745297166, 6.400475665679991, 4.9
10815576783692, 5.04001307796627, 6.76659559180846, 7.590364360795133, 5.68
0284244127294, 5.8514357068054075, 5.270059074913592, 7.188083151262382, 5.
696755125997022, 6.082526460605803, 4.4069191966388725, 5.0108856655401945,
4.031592725346935, 4.153886932710638, 5.1519678446146315, 4.84371779275696
6, 4.500475241513072, 4.931103436337112, 5.002822924508711, 5.4604610449010
06, 5.8808648688135525, 4.1323629767872125, 5.735385575426412, 4.3537504874
39097, 4.418192822933426, 4.581400509388977, 3.947763969181643, 4.344506298
744767, 6.896369570320526, 5.4920819856516125, 4.682313075081112, 6.2657730
43540013, 4.5064131243361825, 4.925747792505932, 5.71717346030254, 6.223343
1229846286, 5.858868318459645, 5.033756852158469, 6.003812683382048, 6.3337
01871668896, 5.404808078451228, 6.796830165830344, 5.638258949618292, 5.491
124443793209, 5.548292320122425, 6.015849331731541, 5.268409612288161, 6.44
3691350951758, 6.162776558113673, 3.8442351303088422, 3.6655443155747274,
4.05083256949108, 4.847476798846734, 2.8698948886302453, 3.173466539630843,
5.455863249405225, 3.519859981875467, 4.218592721192072, 6.53977273645843,
2.7484575386655736, 4.831805175719787, 3.107328989746506, 3.974592983920948
6, 6.2874046220566635, 3.399279384164099, 3.125544006034818, 2.317031317264

599, 2.604403780611106, 3.884861467185663, 2.7872128040765514, 2.700581619501842, 3.903737956943896, 3.17542521422148, 3.8206727509813216, 6.6854506559452185, 3.9173877593771094, 5.3666558498602255, 5.400874329103688, 3.1078015390393947, 3.4602757070250365, 3.0032540824633807, 2.4284949927585844, 3.1842039845485246, 4.6615487507608515, 4.106296617595271, 3.9299520719842636, 4.580538624588469, 3.219547083988359, 3.6719583302015253, 4.21983570374097, 4.606660990674986, 3.8023269590720092, 3.2758469313630436, 3.0806990355723656, 3.6243624398413643, 3.637772220544295, 4.2002106343992756, 4.806629976060724, 4.027532625926337, 5.415990258169232, 4.582857680288521, 4.2909680062392335, 5.174672442985051, 5.587629751618752, 5.383514342422492, 4.868300977287783, 5.010945763887526, 3.795722757316634, 5.06365385399364, 4.875810995350886, 4.202871407159287, 6.447391137797572, 5.246390620678165, 4.209997582716251, 3.9443441619204602, 3.248597610077633, 3.911336675496905, 4.421726726771655, 4.206229225749088, 4.947993554564456, 4.415988133588419, 4.248462866381854, 5.581233367832614, 3.4875172161240124, 4.459961725701874, 4.725469430894552, 5.417122481979225, 4.274134834817304, 5.662870805916637, 4.830661745841507, 5.320748143982422], K Nearest Labels: [1, 1, 1]
Distances: [6.619713564600754, 5.548907582044401, 5.673877917008513, 7.638873241941124, 5.015326279709161, 6.483300152001882, 5.606918955093861, 6.007563736182587, 5.60333782300224, 5.876446081382704, 6.557839133142092, 4.8932624538808085, 5.075054207259381, 6.437639147988851, 7.542028879992209, 6.034523914903896, 6.027126044548121, 5.438581778718583, 7.244832346740378, 6.079495663471345, 6.406604357497589, 5.066094970081489, 5.35480917529094, 4.648889131990463, 4.747666998877028, 5.9037802676162965, 5.010863686674778, 4.496358019095206, 5.367593143457488, 5.120048485234098, 5.780097864504755, 6.107355032783967, 4.159292727087777, 6.031713062837333, 4.738016712469691, 4.860760332787116, 4.948950527981725, 4.23971304769423, 4.393895965177046, 7.134239022374698, 5.718881925878095, 4.6863455677680115, 6.519505811400131, 4.636796356792352, 5.160345659827271, 5.855964645604064, 6.259475396771083, 5.932135881273721, 5.0821985075694505, 6.118006559542824, 6.421928327334005, 5.7327006963040175, 6.913422900019398, 5.8503610933492, 5.7108139269787275, 5.960930735215166, 6.16673156472676, 5.533525173570007, 6.624511396809495, 5.767473948495091, 3.5698443361270944, 3.203041881422246, 3.869213482596267, 5.3171914370176925, 3.5057663247950277, 3.645231428519081, 5.39538270541948, 3.9853998487883797, 3.923711159787643, 7.085785763106899, 2.7989660252535624, 5.3992559132223965, 3.3036582833748644, 4.830555144434157, 6.592195576889816, 3.747968098798607, 3.818642586468986, 3.1319614301816614, 3.343465364258814, 4.59346051300356, 3.4373854038443907, 3.4185132488859344, 3.320320522541446, 3.4238446010700563, 4.587411292310146, 7.561913247831475, 4.641486620770841, 5.443458352078572, 5.965531676140621, 3.5774645980374316, 3.6556130927645265, 3.708304574545398, 2.9111622733111844, 3.4147234322617046, 4.7129513967260594, 4.148378573805038, 3.981135685091528, 4.749214400577823, 2.4804524401539987, 3.080192395152292, 3.9864416351071816, 4.6040622941930405, 3.1046950449637043, 3.538614014138839, 3.182215988022968, 3.5369621034753593, 3.672778280813927, 3.917113211797638, 5.006533249708673, 3.6031785828331735, 4.814956769743621, 4.43446484579878, 3.9964269099734797, 5.132166876418366, 5.767742528113076, 5.587436709447725, 5.197402312895415, 4.5348529356110365, 3.400233153107454, 4.6242442865100415, 4.425702405369786, 4.268838456706473, 6.380841365360451, 5.153470773874662, 4.0454046341459655, 3.7947069109534053, 3.3231632802858093, 3.7449315080881753, 4.119887226841898, 3.7206923556219125, 5.055885199618215, 4.322696111961613, 4.403514788262531, 5.958550438750036, 3.4986525474136014, 4.184349615263725, 4.348344680698412, 5.08393749790553, 4.1520832998542145, 5.5503871755262235, 4.667883874817535, 5.091687409516176], K Nearest Labels: [2, 1, 1]
Distances: [5.103037684937479, 4.004515334085601, 4.381650150258438, 6.338859779803064, 4.193268121139408, 5.701539535153795, 4.711676913265252, 5.170853551398939, 4.672937660027933, 4.377429668878609, 5.1901094970531645, 4.44225528139322, 4.347846941037873, 5.676919099202453, 6.353243785277327, 5.255403196360063, 5.575429806097633, 5.155749386019066, 6.565014275925418, 3.991730773286245, 4.502607274141418, 2.937046603601282, 3.608469371517241, 3.2001121065722247, 3.217503570764022, 5.686403819310963, 4.277950027502179, 3.9658220672431193, 4.29258130139779, 3.697550934614058, 5.079931425234499, 5.182373495852675, 3.6614598974220147, 5.923568909180325, 4.083868111036277, 3.3845038237471288, 4.239442600388101, 3.720221930177509, 3.407965957

2880807, 4.972456625385684, 4.195411967662078, 3.423976482754022, 4.7130554
486208025, 3.0434821898717646, 3.437615903255074, 4.708964509615546, 4.3507
19869156167, 4.224259325311979, 4.290050943918579, 5.275075429945854, 4.694
525654576795, 4.452546088730733, 5.480383445466653, 5.349141480651753, 4.42
6334115986057, 4.607652948094567, 4.733350705701905, 4.627772559462457, 5.3
120978988313325, 5.818208135395937, 5.452741275250968, 4.941143055916869,
3.9025169147027365, 2.8183281150072803, 3.8542527998799305, 3.1562686582509
15, 3.5817244990233887, 3.013860338552597, 5.29579340243892, 5.537347990183
829, 4.4620104147698365, 3.8459173200521772, 2.5168524596611657, 3.14869304
9861062, 4.415702484419718, 2.1601783444090876, 4.833767469734754, 3.435328
3656234894, 3.2787167976121805, 4.034577925856659, 2.5042494330485083, 2.63
9836209027899, 4.25352101185287, 2.2346487021950705, 2.7176263082920094, 6.
823427601668894, 4.0872082780473145, 3.6353949236383127, 3.260055386377194
6, 2.3460732648002023, 3.1888440567215706, 5.003127695460574, 2.93180778190
06776, 3.4764582136050213, 5.265909151515246, 4.904776183689364, 5.46643937
0143195, 4.884501038310775, 5.289572736616603, 5.751956789321211, 5.8611373
11946492, 6.159281154031981, 5.335082998007556, 5.002709749131321, 5.165932
758741062, 4.977803811970026, 5.495429225187684, 4.638407815240498, 5.43049
9617173904, 5.185625979493386, 6.324131072942918, 5.854783558529603, 5.6320
98094839583, 6.109611000278105, 6.403846198083868, 6.3350337145213205, 5.84
9894325147865, 6.431999156520005, 5.852447863847478, 6.39172893849234, 5.81
5551028830583, 6.599314096989601, 7.535561821637603, 6.57775257856886, 5.42
5433530319116, 5.303745138988168, 5.3230308297763544, 5.0372054166246665,
5.962917316048428, 5.675258536992069, 6.220809899355874, 5.728175932656229,
5.878239983753137, 6.223713822281852, 5.026043630693341, 6.273000926856698,
6.102959877816933, 6.348006170315392, 5.52080165889544, 6.596746666312426,
6.411310742927401, 6.765156503007047], K Nearest Labels: [1, 1, 1]
Distances: [5.304040659696532, 3.916464279318866, 4.821312712813656, 6.1888
75071320571, 4.230388758177634, 5.629783472432328, 5.214846659757708, 5.071
448461345326, 5.104797386286936, 4.373371382040405, 5.421821012842784, 4.67
4559717355742, 4.57550259836975, 6.32793739588804, 6.646229063899452, 4.899
8912299093895, 5.5574747947245795, 4.977147889246942, 6.361921640736743, 3.
998891772216495, 4.52863014292362, 3.5897035372725954, 3.9873888398736725,
3.193945389660609, 3.6235891708634362, 5.712063984014895, 4.27553447110984
5, 3.992373452189983, 4.436607026424208, 4.207572266410854, 5.1595103883756
4, 5.014640733932536, 4.190438821400002, 5.638217717250363, 4.0422018723570
5, 3.607394838029025, 3.9594309912085386, 3.5341124239252504, 3.33601215185
91357, 5.2446517854712145, 4.323664322371656, 4.038342694851053, 4.58014851
0380853, 3.633769440077869, 3.4941325322290586, 4.933277120406229, 4.941167
009903985, 4.3851656185622145, 4.707370242132583, 5.303406184643231, 5.0206
02409447111, 4.834444391344165, 5.188704914621275, 5.193734657911572, 4.245
181688940167, 4.566634968775337, 4.708680165462343, 4.404092399747761, 4.98
7401486453938, 5.570953666195603, 5.164615885732165, 4.685702264806443, 3.8
95426064321398, 2.2145241042821255, 3.666658626523433, 3.171673324338819,
4.0794261095491136, 3.114818963855312, 4.901282428965112, 5.39640097743100
3, 4.668552135795293, 4.148209828290924, 3.241790896460113, 3.2934035000083
925, 5.04680803355711, 2.3802315135169967, 4.910747335932379, 3.02820845249
47415, 3.231589264423159, 4.36614485660779, 2.9830592956439985, 2.960039519
8813785, 4.852806563933551, 3.5154371489213476, 2.639825691826302, 6.525340
27330973, 4.798313057467653, 4.86011707599141, 4.371975873227479, 2.7082525
180838304, 3.4700949824352034, 5.327116259082618, 3.6084037849746404, 4.220
61667260731, 4.758360799000963, 4.809542111964827, 5.387995476300871, 4.607
251343215402, 5.418560076583251, 5.922161311737838, 6.215356987434158, 6.65
72526762854585, 5.886853604709062, 4.9963008153156485, 5.420839315629959,
5.216919407821313, 5.756825025646234, 5.319168951566671, 5.369188172245177
5, 5.64077275344026, 6.987775854033604, 6.177550642569446, 5.8492193185987
9, 6.1176612824480125, 6.249448986113133, 6.069097538148101, 5.507493846912
8725, 6.838230976574853, 5.910914834611819, 6.999904496662902, 6.3826971708
357565, 6.695153811326261, 7.789397822423122, 6.7496804448562395, 5.4927530
59033344, 5.462985329542986, 5.5899438334216045, 5.226609715968398, 6.21850
7797015938, 6.39211379295313, 6.321681512014713, 5.830527644885432, 6.04097
41678896856, 6.186296781751305, 5.090701597940549, 6.27835861179427, 6.3681
50695873443, 6.8906782337769314, 5.823086542012552, 6.7002260051306015, 6.4
459544471900045, 7.143003061403029], K Nearest Labels: [1, 1, 1]

Distances: [4.691395171148668, 6.348473531685109, 5.272058311708292, 6.3691493007610855, 5.140518602574319, 5.777259359351713, 6.309643032032311, 5.660724090762182, 6.2604988680225295, 6.21079942756186, 5.596082589078207, 6.223065304254881, 6.3628969837546085, 6.710693467421834, 6.382953016041334, 5.9115342699566655, 5.2613521309782625, 5.4084086572039665, 6.621386415639698, 5.554848679816927, 4.659794121149695, 5.778414836443862, 5.842393597896161, 6.062111195514154, 6.072621442994678, 5.772248377623663, 6.51043420124801, 6.156522374879262, 5.756073321030881, 5.873293644284082, 5.694142955939661, 5.65959865348854, 5.115363150259785, 5.23609240384635, 5.305149213615422, 5.5909553938065715, 5.7774476618301565, 5.812550614570506, 5.810198750558207, 5.541372146317719, 4.698162171422154, 6.611897478189537, 6.495793792123223, 5.9361794681887305, 5.072982366796398, 6.369801068331065, 6.039565697458521, 5.8173963902963814, 5.271680588507488, 5.777358990810221, 6.04941009649227, 6.019920574465732, 6.107147761434791, 5.548380384153338, 5.120911863575595, 4.584406318455606, 5.137961938972492, 5.967992939385317, 5.86221127380969, 8.676290136477311, 7.457226163282053, 7.269726529767683, 6.94055014106592, 6.4720437314523, 6.437589801311343, 5.338392705316244, 7.003587380280648, 7.4926295558006695, 6.8355388439661, 3.3369180303365575, 6.080059502074794, 7.045654129909479, 6.003260265256603, 5.670835239911874, 5.3955478192691215, 6.820475422535726, 7.027912922072256, 6.690154596612494, 7.314059151155643, 7.028350768870826, 6.668123873644253, 5.363964846162274, 8.23632019513915, 6.477372093402489, 6.022779303739867, 7.570382161510722, 6.852734103693476, 7.5288954549201454, 7.0541878871499, 6.906050234683454, 6.748485281603238, 7.2577727896652355, 6.438906455468095, 7.589794284415726, 6.133863466462649, 7.233272213299252, 7.720223547132133, 7.133919973440493, 7.67373006331728, 7.83245710999676, 8.51045150955761, 8.482161599119253, 8.130616385282945, 7.300792029985123, 7.740061679422024, 7.913448356688399, 8.057188956879083, 7.746280643025407, 6.945500579665094, 6.996014076209136, 9.524830597944812, 8.723115121374862, 7.867041786722392, 7.485518966224081, 7.151721946575521, 7.62482531060098, 6.723157065089578, 7.778974630302606, 7.147294415260346, 8.324953987631089, 8.221440178091425, 8.117196028670927, 8.112006743829452, 7.960884597359517, 8.198710642619048, 7.148726993039081, 7.235633290503954, 7.074148014673804, 8.271106935733703, 8.354283112458267, 7.285353139914224, 8.310955766820333, 7.122156476506158, 7.77774899777407, 7.791626230461506, 8.919197165826388, 8.159074518052762, 8.575240365021097, 7.218924786696055, 7.229350203986756, 6.69659932450879, 8.555179654847365],
K Nearest Labels: [1, 0, 0]

Distances: [5.841420832988137, 5.963136627207736, 5.579076769916807, 7.192784033879883, 4.180708074058483, 6.56942898164579, 6.233431947000978, 5.167362371394309, 6.642925805067446, 6.210575784651203, 6.46336450426069, 5.598811191283917, 5.974349126027044, 7.948951007013496, 7.913064318601518, 5.52805181581551, 5.420024129228517, 5.494831706689944, 7.38150458992632, 4.801567862911131, 5.64159792583159, 4.404470881457716, 5.563134106457876, 4.708293535880603, 4.924322744318391, 4.809183537570434, 5.624600565549523, 5.2717971371675425, 5.3543029459103035, 5.798315582886582, 5.7416582548889314, 5.822476711287114, 5.255607399325573, 5.565297110444603, 4.154136170109176, 5.011073907179541, 4.502205032978118, 4.420518426804427, 5.18169887768523, 5.8176588026491345, 5.697635973464678, 5.55873242681412, 6.094114016206047, 4.9509815210878685, 5.361913763936563, 5.553145295534957, 6.518693687986806, 6.2483041588109, 5.612845942162523, 6.500547796078231, 6.9007626505028306, 5.847070705657368, 6.918571978469309, 5.639151765689389, 5.003513400987757, 4.948792157269547, 5.811631616468719, 5.468533727972633, 6.102992557013608, 7.399248603743817, 5.909495042481549, 5.705497880658883, 5.592528813643843, 5.89181396272738, 4.43174769517496, 4.443477641551824, 7.308121758029006, 5.843640488769348, 5.391137182120157, 4.891499566180282, 3.7892140656478253, 5.789933057575998, 5.330521139711011, 4.678660893735145, 6.414200753917987, 4.737875535141335, 4.82272949609085, 4.695215272665558, 5.141264899338742, 6.532264135492602, 4.917513692147213, 3.8103771539097258, 6.067918388422042, 5.132622141322625, 4.687091101712337, 6.790454657620777, 4.706013560230023, 6.345972973022313, 6.183722140269042, 5.299317108058367, 5.50274196816001, 5.338663783456111, 4.881542219510578, 5.215047900129696, 3.3120795209093474, 3.877185854957905, 4.3022270910619556, 3.738987078001481, 6.000013407320162, 6.031945888728171, 5.611238060612488, 6.095805380106471, 6.151018418368199, 4.75749416816259, 4.802241302701315, 5.074516573380063, 5.0

14168034306878, 5.625688331105266, 4.534411243751671, 4.895109633268212, 6.747405235570775, 6.017231068222793, 5.67860521994807, 5.097150373441429, 4.372982075508903, 4.972163069227668, 3.989834844076695, 6.7159241703488615, 5.526646049502049, 6.68856561765557, 6.396127589379638, 5.902605217415332, 7.661900835446418, 6.889583086473698, 5.868245645499102, 4.882424726530994, 4.89113497603198, 4.394656161518699, 5.9592834300201165, 6.169186033476576, 5.33387597918179, 5.885631013485385, 4.749736654270203, 4.802436250912314, 4.670652928864109, 6.3657219015045206, 6.118993778904917, 6.49228391010014, 4.993425796101896, 5.65332775258962, 5.320182497117174, 6.557509259887871], K Nearest Labels: [2, 2, 1]

Distances: [5.247605294646951, 3.4085125933904683, 4.748751311972529, 6.303499359181305, 4.864103403773024, 5.356900264760448, 4.647390911472455, 5.33471857245586, 4.156400033423753, 4.068470127393109, 5.046857211268081, 3.9973216963069427, 3.9460288413750355, 5.187361348109734, 5.979301046800668, 5.081328746477933, 5.646323009992786, 4.982145893695707, 6.107165504231374, 4.530419821804196, 4.550175645296888, 4.148095622066638, 3.741220459013447, 5, 3.3499737885034393, 3.762642586859364, 6.412498685725903, 4.194484437278, 2, 3.4194532346339717, 4.607123312478759, 3.5575936217718045, 5.132813968284218, 4.908806670745875, 3.410443544149689, 5.832693957366305, 4.211563348189503, 3.6314176353854695, 4.270195511007217, 3.486409788908174, 2.50700620212163, 5.634845583673034, 4.171075460780416, 3.7822604761653627, 4.807974733154105, 3.7855495702717943, 3.273455529391055, 5.266104788295977, 4.683563176000728, 3.959369875955202, 4.245281266023569, 4.910787230009822, 4.129785952464071, 4.473110980428127, 5.167953179638497, 5.237353973423991, 4.268838321596465, 4.7925589131888895, 4.648799326777216, 4.519828994595426, 5.103573863737557, 4.5557108769120145, 4.6190071377893, 4.057322453881045, 2.9771020582227887, 2.2766050759298984, 3.63179709222489, 2.8523408262106362, 2.466650546351086, 2.4314188605757368, 4.649760205210656, 5.409415485995509, 4.253602518388843, 4.376149635511717, 2.297677961657208, 3.7332798471945066, 5.0129885018793, 2.664389191133233, 5.182932048778054, 3.1371560567195544, 3.5501473407270163, 3.7692462802508997, 2.5837283220237612, 3.017723299127044, 4.212874760244215, 2.9705273267764456, 3.4321570452189123, 7.550922826805513, 5.50427588706043, 4.977302786761344, 4.754120561060149, 2.7378469841800794, 3.3346404214998735, 5.582154877250577, 3.393086288789654, 4.369641237968652, 5.0164696929194355, 5.1022285820319295, 5.612292818486474, 5.209982236457617, 4.691031108185667, 5.423887486130306, 6.279340442025824, 6.906270121390951, 5.364305998089179, 5.387622509798675, 5.554188945919574, 5.108727098137192, 5.956650449246851, 5.227186932081599, 5.668362828805994, 5.416673671476595, 6.72232911062196, 6.333465336876902, 5.79307509601731, 6.39041371859714, 6.8206649787300835, 6.542317903688633, 6.220286147140588, 6.395548921602373, 5.45294187973955, 6.7961352340931604, 6.119742476750107, 6.871825798988065, 7.664838737513442, 6.589655629871312, 5.654367380833174, 5, 5.48098734504604, 5.683623770265417, 5.261446845301127, 5.96644276130333, 5, 6.042849029724888, 6.535372707766582, 5.736846357226259, 6.218137370270271, 7.040757399265698, 5.180345338000798, 6.097294930785646, 6.10579863511179, 6.881384335790506, 5.929596426439848, 6.813809941990302, 6.387415805499975, 7.238055047778105], K Nearest Labels: [1, 1, 1]

Distances: [4.704821174209944, 3.697022252951943, 3.8655570611281833, 4.808320284000524, 4.475448578174984, 4.38002453261306, 4.466001259758559, 5.022209923912458, 3.939371707032935, 3.1906559942970727, 4.231707844088323, 4.11480786624231, 3.6610615231270542, 4.818416489387205, 5.118126023838702, 4.514962615500014, 4.834399731258492, 4.1166741396318685, 4.968188517338568, 4.184890894746162, 4.004100300355526, 4.209798068844434, 3.618007904222878, 8, 3.3974411886025795, 3.663495229284202, 6.003368761391925, 3.6151284844482308, 3.5950927811431597, 4.16459351292243, 3.503466619876333, 4.050248077198634, 3.882185240361189, 3.6941085924798647, 5.420219644105488, 4.071993356642454, 2.963305686679117, 4.198305648322931, 3.4831475717945994, 3.102316142007241, 5.279395664961068, 3.3112456684126363, 3.8160723105751746, 3.703917747661741, 3.825114964670168, 2.489894267517744, 4.860471982294887, 4.0736918947615095, 2.9202262014216758, 3.60487780151978, 3.9694659422717784, 3.677326879539609, 4.064827596996409, 3.8356953586970706, 4.595292795083096, 3.7673520658307202, 3.743942129859728, 3.7730062975181484, 3.664773209842601, 3.594737876568125, 6.3045718015047925, 5.934523238126164, 5.196950260506184, 4.27305462541802, 1.384025438239272, 5.045574032050571, 3.115265143

8777506, 2.6156826586287703, 3.6328960116029996, 5.363049951378482, 6.18339
6256849266, 5.404674262695443, 4.070368844988019, 3.318798218103996, 3.2704
099292850115, 4.685787909841459, 3.3352984310273026, 5.986664199565854, 3.7
8323705829741, 3.886102050493159, 4.996259141310425, 3.8790164695858604, 3.
9591949740496246, 5.621813702755054, 4.3378723967438075, 3.026467125786587
6, 6.3916588710386835, 5.768953776266844, 5.163194630861906, 4.438276717669
369, 3.143051204901453, 2.891938348290012, 5.716874815594247, 3.77681172511
8947, 5.047922502621551, 5.707731772213784, 5.889151834373677, 6.2077752467
76605, 5.774744679502496, 5.605701113301962, 6.3087703931119306, 7.22895603
202197, 7.565935512495797, 6.438126402965303, 5.8892101773203045, 6.4081252
76026155, 5.971229156111543, 6.774136994947516, 6.157051127128946, 6.265378
16134518, 6.198954297830671, 7.789110000198667, 6.844429348046725, 6.092235
940161237, 6.688112653431981, 6.8693527844248266, 6.578193184539794, 5.9963
37225650969, 6.748727956839614, 6.120920475792544, 7.2875090344511255, 6.57
77211114647205, 7.045570170886475, 6.995267523881511, 6.186240522305155, 5.
990843223140848, 6.278194446715708, 6.493125090083782, 6.167067131070792,
6.519435592321588, 6.966142604136898, 6.749837539053709, 6.354254701425981,
6.387455796590721, 7.018956903365188, 6.26539902978011, 6.789363633016478,
6.4534333064737766, 7.430429878212796, 6.2802110831365985, 7.12681752079514
6, 6.689069057266091, 7.348259684733315], K Nearest Labels: [1, 0, 1]
Distances: [5.521231294052342, 5.07445384921083, 4.284491170883624, 6.57250
4778750878, 4.551609894564051, 5.696050554271012, 5.299660144262706, 5.9432
49835554608, 5.031694846324605, 5.158022541767603, 5.183216557737091, 5.169
450722432741, 4.763586394107515, 4.896756565309309, 5.878254543261011, 5.54
4847156993758, 5.696775320094942, 5.1396578113471545, 6.38484458961234, 5.1
2425735265772, 5.088926269874494, 4.025571201525968, 4.571500137519617, 4.5
05856574970521, 4.336328928356214, 5.747180101049377, 5.018431823465969, 4.
982758060997231, 4.5033295574069445, 4.588488721469137, 4.967862722572472,
5.537331829895314, 3.661401140415423, 5.881825423969838, 4.876377017709745,
4.286524058220474, 4.9498807979286354, 4.531500131587472, 4.31473228083138
2, 5.680673360528289, 4.435197087344588, 4.506990745865557, 5.6290515740505
19, 4.13117735307208, 4.263585064097513, 5.587166888339899, 4.5954023615044
16, 4.908450306057253, 4.354727762727886, 5.323782658184854, 4.789547719597
4285, 4.811391936378233, 5.567480948671883, 5.446720081080257, 5.4540714296
87727, 5.081611662798024, 5.290758387040513, 4.967106033779247, 5.770144227
444578, 7.119764188254642, 5.827544045871348, 5.710808063576624, 5.13317803
1145192, 3.6510730686975346, 4.428273111826924, 3.346259762249492, 4.075006
327490459, 4.789597010831072, 5.985794396454686, 6.267229592069667, 5.54829
5047817798, 4.499668365900449, 3.690843647201281, 3.789412676734013, 4.4063
60917761058, 4.184062140991817, 5.057257730142338, 4.200835512769186, 4.577
565178780346, 3.2857698754433264, 4.390267241982618, 4.030445929823711, 5.6
52018274674031, 3.5851298276116967, 3.9486973794299556, 6.820497179273363,
4.793316279422789, 4.547104579213492, 4.063748981416607, 3.936645917168313,
4.220025302189558, 5.130653849851051, 3.913525320545531, 4.578568478502174
5, 6.737445443761787, 6.458147035153679, 6.946933653068371, 6.431620451255
5, 5.86359407903214, 6.355209506433503, 6.6273565762975135, 6.5141200415048
71, 6.081263847352729, 5.817641273140622, 6.261476988575158, 6.548740370482
408, 6.538258679201776, 5.455329981041337, 6.733026164410565, 6.22578777715
8378, 7.539196650246889, 6.89358407062947, 6.5536949933821935, 7.1524942330
4202, 7.586180412386091, 7.605762042396125, 6.911172535414771, 6.7037519253
01889, 6.6679524049818815, 6.707382501443107, 6.52595295477146, 7.045882736
956476, 7.55773526923426, 6.816566591781687, 6.2667834305534065, 6.08670567
64161935, 5.993371631936962, 6.288769140134892, 7.004004940923906, 6.442540
284493078, 6.779968238147023, 6.783994314450388, 6.715796092185021, 7.32697
149513994, 6.484615341220692, 7.41250349483625, 7.011567663461238, 7.015680
318204286, 6.28657459934309, 7.3417176194996125, 7.016563734874416, 7.24725
6763752016], K Nearest Labels: [1, 1, 1]
Distances: [5.319403265963082, 3.4282692678608453, 5.229014724563797, 6.463
549142175384, 5.27244416600784, 5.519853725180066, 4.898671000496634, 5.123
465744866968, 4.568457825205387, 4.354284128276039, 4.980437150595455, 4.00
831532636858, 4.234699016635117, 6.002000131649803, 6.347134458200743, 5.14
9434581187033, 5.791527950865103, 5.2252056190877, 6.149438814469236, 4.657
978807627012, 4.677419006975658, 4.358690020955586, 3.8700507379109608, 3.5
84850168634585, 4.186988098530185, 6.78175219559479, 4.644117311453029, 3.1

344877365494863, 5.113728292555352, 3.783414104236589, 5.522959673721365, 4.770648731610119, 3.734691786175128, 5.774853231946509, 4.334930549522631, 3.8871052991778754, 4.821145305707314, 3.7563035782051526, 2.42929432740919 23, 5.752968100929261, 4.58357086301047, 3.479561698491465, 5.2552742504776 27, 3.8726406901109964, 3.4257511250397097, 5.031466598980513, 4.8545434024 36154, 4.2556475509213865, 4.606859401697925, 4.934961608390092, 4.48959482 9805428, 4.847783721270922, 5.526285890116008, 5.350110703504043, 4.0983690 91939202, 4.906422707659363, 4.831980868478566, 4.859137922175277, 5.426675 837245452, 4.1664096751291755, 4.705203911594331, 4.101376626004294, 2.7510 436438077606, 3.3988885773097457, 4.0259012199565785, 3.808759969542176, 3. 3839556318206108, 2.413426554625163, 4.7840662914681875, 4.582623890940969, 3.9343249567598333, 5.209394918974935, 3.020328085532582, 4.66839403167275 3, 5.14357478039145, 3.1210920575023797, 5.493179839215735, 4.0275582911057 27, 4.24530320587419, 4.259677229746591, 2.6082295704556437, 3.097433311147 167, 4.282923834814531, 2.912119552662109, 3.9011846633101777, 8.0400973682 36346, 5.68319390599791, 5.080693778494458, 5.371633732277164, 3.2803569259 57015, 4.2608460456420145, 6.059595880615985, 4.064075309112432, 4.50502665 271851, 4.832054365428106, 4.943865141830212, 5.474249963724597, 4.89870002 1834684, 5.114885578399285, 5.377001788509152, 6.170489184262928, 6.8455033 05979425, 5.297810744652143, 5.4305918400006785, 5.671031995039818, 4.91131 1359245324, 6.0104824706641535, 5.153162785643109, 5.022461826143789, 5.056 674481734824, 6.619896871549057, 6.274757717042425, 5.858771518981424, 6.13 4928699215081, 6.693711394719717, 6.466041787650483, 6.482040580150254, 6.5 106034012640865, 5.397126795451289, 6.682037652212727, 6.323404887697194, 6.807780832882252, 8.180464962803772, 7.1750186628068136, 5.77964120422070 9, 5.39697305358015, 5.635520659477892, 5.010786264769004, 5.89583149303833 4, 5.913461629832324, 6.417022808544643, 5.580633493382261, 6.2510210627861 62, 6.931752425206754, 5.007553854286874, 6.120166179252959, 6.300569569621 389, 6.699668356638243, 5.821974689654188, 6.359557260291387, 6.17804883587 9634, 7.438435893070552], K Nearest Labels: [1, 0, 1]

Distances: [5.79601775727764, 4.0794637300889285, 5.574411174976884, 7.0935 77215192372, 5.3155323645599095, 6.114199746068068, 4.941082698361513, 5.36 41247026458325, 4.819460873121293, 4.846440073289597, 5.753567732327191, 3. 9975591648222397, 4.489425004796299, 6.421738718625491, 7.078759315065123, 5.660911414792814, 5.998189986521645, 5.5661444026607185, 6.908071091229520 5, 5.080383485888165, 5.33859328226159, 4.54692177554591, 4.23918451472674 4, 3.665225150104891, 4.109513803713934, 6.642253107561502, 4.7106201845161 29, 3.2834763151328192, 5.329271555506221, 3.9765535268225056, 5.7913353495 71281, 5.37549860397815, 3.952851802437254, 6.164720733116988, 4.2979121084 13203, 4.124399222179309, 4.799485664011978, 3.7613709705246827, 2.99709861 63759545, 6.2871153265426765, 5.168561037871583, 3.799971675101259, 5.64193 8434381874, 4.116884494013872, 4.093579802718254, 5.334262790985275, 5.5471 10133428119, 4.842376742606469, 4.851305421656674, 5.618996822754993, 5.314 290559036122, 5.088776547006392, 6.377079806572349, 5.7565400287670245, 4.5 04612916528153, 5.30426910991528, 5.3408087622327445, 5.280612551234169, 5. 961689126325143, 3.951245614067971, 4.269608643926199, 3.519965931898517, 2.396449875624161, 4.238434367027226, 3.7155507830537506, 3.800226590336443 6, 4.085830650100951, 2.156496227760253, 4.277159265797619, 5.2802668169807 73, 2.64260846649143, 5.1145096763324425, 2.572232064795966, 4.679015120521 695, 5.903579123547985, 2.7461549999371213, 5.112561773510512, 3.5816602966 25328, 3.6454837063252192, 4.78080743786519, 1.8182345359883365, 2.62981556 11581615, 3.2139630300813176, 2.6414037641914327, 4.1611661148173, 8.269697 004208481, 5.323368255481676, 5.1786598412867, 5.582067400493083, 3.0894413 998471233, 3.854867235316669, 5.4178464683979515, 3.3031843597466177, 3.957 638421253584, 3.9458829447382406, 3.8981649333679997, 4.155639368678065, 4. 243713488762841, 4.000074508772919, 4.458797286131355, 5.257470131132669, 6.20771560784459, 4.277109871507128, 4.691378445828619, 4.4332955167963055, 3.528803892812835, 4.829593476991446, 4.547467308435433, 4.593915525786295, 4.009155545064462, 5.369963469118732, 5.396950549794908, 4.931903833918081, 5.484863813158917, 5.9335707719944955, 5.712388624698965, 5.67127476535530 2, 5.84102412978816, 4.275415254643624, 6.035125034275183, 5.45382551734589 2, 5.9942755471049685, 7.620250612497278, 6.48612388040146, 5.1256232465645 76, 4.616592221869114, 4.756855449977986, 4.00456504465013, 4.7842451642555 82, 4.852889768670657, 5.891171403396228, 4.791772288186816, 5.287390240735

648, 6.368770790587451, 3.792395141448891, 4.991661917969648, 5.215476330737016, 6.046769135268392, 5.046280699085868, 5.934759314629777, 5.4983580690944915, 6.5981629640585115], K Nearest Labels: [1, 1, 1]
Distances: [4.9097103707679635, 4.22757672880962, 4.352978680954029, 5.84322424680541, 3.1236331217953968, 5.386575051229051, 4.642697468693417, 4.3068349535614585, 4.987102596068585, 4.348426186352508, 5.456503486288388, 4.4614678142387705, 4.435268715176237, 6.304114407181193, 6.8079534843075855, 4.834772307008399, 4.883401696344464, 4.432767973239492, 6.33902618453366, 3.7420095857257833, 4.51054569983528, 2.801550753973195, 3.584929291167688, 2.814736722502504, 2.7914232360018505, 4.450133874771253, 3.5417048304981003, 3.7838363697980943, 3.814879515533999, 3.9042526654459673, 4.7799971073712815, 4.924294912588859, 3.7650101764118546, 4.977996845254539, 3.404892956992449, 3.002812189584882, 3.536617699225763, 3.3074568725156066, 3.729511441830489, 4.895309919419809, 4.027986909464104, 3.3031808626516304, 4.351113544853076, 2.602363069172688, 3.3054835335264703, 3.8245263456470004, 4.597989162565559, 4.353897413871284, 4.24963838918649, 5.155604918419122, 5.720386683104306, 4.729741061809444, 5.209841564224709, 4.6955853649077355, 3.997690407511186, 4.271542265548405, 4.434472454855664, 4.122592435669972, 4.922512407825182, 6.358689273371671, 4.922440118955369, 4.357235488453461, 4.01993378170706, 3.6976078456148977, 3.822047160905798, 3.2863594977093196, 4.866625139074251, 3.3384870765550323, 4.212705591705507, 6.150968833969468, 3.9161970445920278, 4.024997212001651, 2.7996660111671785, 3.0046038672326163, 5.208549726584853, 1.8146219325126511, 3.932562968831951, 2.952212749390878, 1.8463793154601649, 5.034557866224859, 2.6145958888135494, 2.2745147815429214, 3.956847921268957, 2.8141768854949034, 1.8312738274306888, 5.532083861582201, 2.977036849432704, 3.7687357146952802, 3.8353107810574554, 1.6196569614267253, 2.2206057566467026, 3.78809615904446, 2.29185215286457, 2.6991332926327876, 4.453035298312419, 4.038656606731494, 4.316621879706708, 4.101998338855344, 4.48441209746302, 4.754488118891044, 4.90106824683411, 5.057996522783217, 4.5413993673998405, 3.399189469310382, 3.631696684917497, 3.77492645072326, 4.094676527477932, 4.027903649347503, 4.60157301882769, 4.1984439383826215, 5.708237035153955, 4.621562606863486, 4.4334045188374205, 5.047980267750206, 5.211339662493461, 5.183701921553908, 4.457609118490038, 5.605726275496055, 4.814339245493376, 5.48584160710348, 5.025860707933149, 4.987172298973705, 6.5475234934665485, 5.57158028798987, 4.200321552802752, 4.225136149384304, 3.957422276249003, 3.9879502417027166, 5.024483440368851, 4.9320153539278255, 5.2403355737593085, 4.922374719787806, 4.6308297572538235, 4.863627580922393, 3.9809399753050143, 5.191068405324674, 5.0642570234165065, 5.3862141527499565, 4.399761778369965, 5.595524122858517, 5.171639910248198, 5.453256273078669], K Nearest Labels: [1, 1, 1]
Distances: [6.238677492891098, 4.508420037875779, 5.597816082629357, 7.083566011851416, 5.153498687162217, 6.255323223920782, 5.616152666294435, 5.898916841770865, 5.317832761141536, 5.175410720955338, 6.140236178940671, 4.897760728064073, 4.967913398143409, 6.597181661519017, 7.315925876201007, 5.994583015566963, 6.269450317015287, 5.604887144305721, 7.1177507790688885, 5.38480617848726, 5.632464382762432, 4.691946844556819, 4.768902758230241, 4.081079257282407, 4.50547904830959, 6.543013194215839, 4.820689686641823, 3.847607359026174, 5.469753188251771, 4.556135782935216, 5.874800618905796, 5.687279323769604, 4.312021179105189, 6.2786441856034, 4.782374853802783, 4.351768173295813, 5.010297508692797, 4.078538125201791, 3.498326787300709, 6.4579760841397045, 5.062038173662536, 3.9486879788014817, 5.792498002321102, 3.8995063113973756, 3.9360393547329955, 5.491619598212468, 5.6193093358003186, 4.979698636109231, 5.082608991728616, 5.888204682750372, 5.574463295427361, 5.713598650391352, 6.173633024196919, 5.927662425174402, 4.984828554954421, 5.447820711832178, 5.503993975198758, 5.327437499942566, 5.968180220486144, 4.276069159051807, 4.174028321083982, 3.364525680878887, 3.263790198811025, 3.4936330758836753, 3.8262312814795494, 3.642638344950636, 3.9134403713286448, 2.6104105169049703, 4.219045728020823, 5.870771650533346, 3.43456437012861, 5.148994426407323, 1.787333495417335, 4.166033001120485, 4.952237028510276, 2.0394423037289235, 4.966492144679042, 2.723333571295484, 2.921594674656775, 4.16236545909332, 1.7506859182487753, 2.6310220600296583, 3.1962081894336727, 2.2298654007324585, 3.210196311339782, 7.592744038796518, 4.870516129945039, 4.59942798141897, 4.858649527401494, 2.0708077437186674, 2.8767338742225324, 4.752113218038196, 2.657226723758895, 3.30406064

445697, 4.526387906037545, 4.399413085827052, 4.599492472055225, 4.45589934
163476, 3.679063014922917, 4.366772764053999, 5.1003135751704525, 5.7868944
01301064, 4.39631754130185, 4.349355975118122, 4.623651405377074, 4.2774384
96479613, 5.099286061778666, 4.530555691126147, 4.949805838806348, 4.219940
9485470785, 5.7472178343994145, 5.279341376382498, 4.867286237356815, 5.661
854525221165, 6.2822118651452055, 5.922983386051475, 5.556756227976326, 5.7
31209553883187, 4.350013093348449, 5.796406870921959, 5.478186541330049, 5.
674544597422126, 7.4326297047017515, 6.195493750585036, 4.469348866610961,
4.907802813164507, 4.747688345664214, 4.370902224514994, 5.279791495192738,
5.125857429890827, 6.0933909111290685, 5.061434872379301, 5.65962749524399
9, 6.454609709652301, 4.015889060285164, 5.1435768894266625, 5.604764904758
727, 6.092154678007868, 5.10594803497881, 6.124916317611402, 5.654906071807
454, 6.500129975301274], K Nearest Labels: [1, 1, 1]
Distances: [5.060484210529422, 3.6691816879149965, 4.630863351434095, 6.092
392797727856, 4.559895721862462, 5.404468728965704, 4.2851622029966, 4.6868
20444589525, 4.419925355243222, 3.961479028326727, 4.9226964164392255, 3.71
3313070211692, 3.8661341088253387, 5.891185661450296, 6.410627136994708, 5.
026424033231454, 5.376610152574101, 4.862170697784442, 6.137154138008423,
4.478612217376673, 4.624181200499574, 3.67024348758806, 3.2202356536032353,
2.703462735307115, 3.0000139394426952, 5.853839623753023, 3.849931033652840
7, 2.911147772968414, 4.386819843272608, 3.1965138017624057, 4.896821406320
174, 4.608859924124826, 3.427186725710769, 5.517667981680508, 3.80429162964
40983, 2.998120277049321, 4.409035212131031, 3.3557669075888343, 2.79743159
66158962, 5.708491667152447, 4.317869526238675, 3.003315044622315, 4.739705
65718987, 3.412882498928219, 3.139309257094015, 4.501087291299904, 4.583776
352292709, 3.997852907237801, 4.157568271409693, 4.834541624163385, 4.86058
3696097779, 4.347290360904046, 5.430561646597152, 5.041484348126013, 4.0069
97099389959, 4.50407104564092, 4.5975789278470645, 4.485417428729253, 5.165
536360855792, 5.157001161308078, 4.820581475475516, 4.224691571015556, 2.88
5920466547189, 3.309690108951994, 4.011956773960503, 3.4915337354414935, 3.
479421998052118, 1.549580339401489, 4.545908957793003, 5.607457781068747,
3.6513325214305037, 4.1998065221319445, 2.1922300296238375, 3.7388035636848
436, 5.24484885362479, 2.198240435185216, 4.935776159380442, 3.315755627921
2996, 2.7497492682123674, 4.283339095668613, 1.3521748977881223, 2.40224915
63566795, 3.8887396064073263, 2.273941241399299, 2.982084469762753, 7.12135
8667278195, 4.565216965068649, 4.386772133988073, 4.496884999333706, 1.9456
298123614506, 2.9862546820920564, 4.827234184313304, 2.653836716648244, 3.4
90664183953862, 4.96645431182758, 4.714292637890758, 4.874761791560545, 4.8
28991269917839, 4.518068891953466, 4.943770121273843, 5.6637189720786045,
6.13632123741812, 4.697252402840356, 4.510793314679301, 4.641491892986887,
3.9589771595656638, 5.047072051174228, 4.61411369716414, 5.025975278244099,
4.534036377001946, 6.071478204556619, 5.481288780957133, 5.093412059244745,
5.887520243000121, 6.308667219514952, 6.07849986038356, 5.794726385775181,
6.030036863147548, 4.928153601605253, 6.0945246561863975, 5.64360828782819
1, 5.83623189163109, 7.196607395518354, 6.212335398641711, 5.12297537581023
2, 4.919302406243592, 4.893501804914875, 4.656157218280565, 5.2150755708244
425, 5.215250550853183, 5.99286794314548, 5.154516093576633, 5.406977364312
27, 6.254406554818573, 4.548079020593762, 5.523301633599315, 5.508241625744
278, 6.1346573572244125, 5.18284845228139, 6.215934313051728, 5.80630712095
4099, 6.500355739584722], K Nearest Labels: [1, 1, 1]
Distances: [6.4408275431833415, 5.751640820897819, 5.840451029836917, 7.653
83396628593, 4.705601466660789, 6.78583911238123, 5.909193266963182, 5.8845
56761007148, 6.161740247701623, 6.072672732832925, 6.92278949558289, 5.6721
05354115319, 5.734987394615243, 7.011260921290981, 8.025214218637291, 6.359
583889766027, 6.290234930007777, 5.673968383993715, 7.642259524086361, 5.92
7176165348595, 6.223083324302632, 4.719002788438582, 5.227931334042908, 4.7
29245504040872, 4.5960793557616, 5.456537333693035, 5.185753113249721, 5.15
0533541310002, 5.271082987233347, 5.36598945875674, 6.229621637181398, 6.55
2741337575247, 4.545614533795984, 5.9159209583211165, 5.060905864252311, 4.
852671094810894, 5.189715384960536, 4.914465658924145, 5.03435181719007, 6.
759871616084071, 5.551666889844224, 4.704509672688499, 6.544769520339168,
4.253587717623114, 5.083391956769604, 5.470816754205881, 6.145784786304274,
6.099080252512434, 5.508025789495419, 6.376167162153778, 7.063365779619739,
6.20982188569471, 6.90549723943879, 6.036013924215118, 5.842232524230342,

6.163425439012238, 6.177368433491809, 5.824887401799434, 6.927744475886543, 6.692826465092701, 4.3930656018053345, 4.069717890467599, 4.64785095468806, 1, 5.591381789432387, 4.0268528164917425, 4.385122653146345, 5.819300447542845, 4.208192758757392, 4.4627870206395235, 7.254846599619623, 4.051403913303461, 5.572481412656461, 3.328834129215891, 4.804428725088326, 6.378400736615932, 3.684332954693418, 3.6363937174066865, 3.696105254686243, 2.900601862631683, 4.746119145020194, 3.4753380658331468, 3.2540851517275993, 3.7322386110410735, 3.2145801601399344, 4.020206761733742, 6.6020278504317265, 3.5936449581226793, 4.7268623615154635, 5.387901910556638, 3.001360275495376, 3, 3.4567558564599485, 3.3853521828018214, 2.851039862167712, 3.0708648522214554, 5.646760592288332, 4.947010421761515, 4.897340078491737, 5.4176388687926345, 3.8358248858621464, 3.8467619048172983, 4.435404567187735, 4.295107032116266, 3.644960254887602, 3.477389155236341, 3.3369844242823707, 4.095397253413565, 3.8874135999196393, 3.969745093530473, 5.3270051209825455, 4.1771504315067745, 5.38314967886116, 4.56304696185833, 4.566447642021041, 5.520275587601356, 6.211694771998146, 6.089010831182854, 5.721220357446459, 5.060280314155445, 4.345383814093227, 4.788019926066419, 4.885158217066853, 4.438066087349265, 6.761834302204323, 5.745701744266144, 4.264758771446035, 5, 4.240721893246958, 3.2741231446346575, 4.260108922097954, 4.952659448127045, 4.161572888252685, 5.488130917937459, 5.015094796172432, 5.0243478814024405, 5.973090067019821, 4.046957124924219, 4.893668106372866, 5.162930093478193, 5.1510827459384245, 4.628805980139269, 5.81612815710858, 5.111695656103417, 5.2692336638656405], K Nearest Labels: [1, 1, 1]
Distances: [5.544587467342803, 4.049592974448334, 4.784146167285702, 6.7030093695560655, 4.677137737658706, 5.825532937186228, 4.627202432675412, 5.215621208446125, 4.775866651469938, 4.485484901846161, 5.52783752715611, 4.061186617105527, 4.156291537214014, 5.957418327042805, 6.706187562371499, 5.352007273096368, 5.695547299102128, 5.145040841523726, 6.578219798381172, 4.791525396359469, 5.17504007421746, 3.7980623997267493, 3.86216918772685, 3.149011751032267, 3.473688245546656, 5.931921205483835, 4.106003671629116, 3.4422452626797035, 4.721694358221738, 3.7786489329312887, 5.260985012212373, 5.153185258404969, 3.6164567983194202, 5.906255100823794, 4.065630858233126, 3.571604839193746, 4.385862054839212, 3.513132422838626, 3.1727552548333544, 6.027699827746551, 4.67915958879733, 3.4753843578866577, 5.197088957480946, 3.6004145141042816, 3.722046269601386, 5.041739280219372, 5.144484574906335, 4.552362318554405, 4.441189224472539, 5.231886965068247, 5.008353297043142, 4.625609588552169, 5.933827431565283, 5.385181062614428, 4.516968057589869, 5.000888794838583, 5.142080117771091, 4.744530217446367, 5.6125998259166, 5.142708372172136, 4.461496510863964, 3.804586636308218, 3.206254220197395, 3.7677953174442496, 3.5844657840485565, 3.1287186648529404, 3.7784180619742305, 1.9745502269293476, 4.547064897652175, 5.983897016744792, 3.153358924643919, 4.574759719177396, 2.038033494455288, 3.643166057651554, 5, 5.444986542621551, 2.4217353277679483, 4.344570084635544, 2.874024692479101, 2.654631751806914, 4.135495602351341, 1.5302776525272463, 2.4975943346871445, 3.2790932345385637, 2.120457087014246, 3.1267961241251028, 7.144227780075316, 4.478386742809225, 4.509510561227071, 4.503298838016712, 2.077447371062397, 2.825697109956167, 4.449850105318019, 2.435050172433517, 3.1373130808954905, 4.710620231278203, 4.2501118334643095, 4.423946138379344, 4.626189450689556, 3.8530313276988544, 4.334852323224165, 5.062415514201757, 5.708772291439646, 4.233410629604273, 4.3740629765992, 4.127752863024542, 3.676276984856827, 4.696326377982788, 4.383885009695766, 4.735069874942573, 4.266004152688325, 5.536867885635347, 5.01485254128717, 4.6959401638169505, 5.47443937658255, 6.016785889972535, 5.658499930551885, 5.578090948506427, 5.461253155420078, 4.375710691695209, 5.648791086059777, 5.120804095567418, 5.513992772186621, 7.003789293165882, 5.830768243088546, 4.668503080638322, 4.655677949809312, 4.449532657395425, 4.197947323322137, 4.781321807310141, 4.739828568189921, 5.6588364608517985, 4.630732487812754, 5.07366028301544, 6.116018189211981, 3.8911315863825378, 4.8800282397679196, 5.072708953951933, 5.784931580698498, 4.881927446878209, 5.957436092369711, 5.457025903741796, 6.150716750197368], K Nearest Labels: [1, 1, 1]
Distances: [6.114463076908915, 5.286896788031627, 5.169958468458922, 7.151963154214922, 4.477138130339182, 6.197802944936088, 5.250646773878847, 5.516475698372369, 5.354492503195302, 5.370423346246964, 6.116924272748277, 4.557335176130605, 4.787820180691536, 6.4563641395436075, 7.3488592515677125,

5.695855830979845, 5.569515501004026, 5.0692480901214765, 6.965358865671127, 5.4577828202669325, 5.872330902390574, 4.374360171455551, 4.822559218286298, 4.095770225683753, 4.087032639539911, 5.407718324065644, 4.630739582723627, 4.135278264468047, 4.943168854022756, 4.666868499401523, 5.288869178803672, 5.606203523199572, 3.951106507489876, 5.793951373802128, 4.222140824951967, 4.147597691413279, 4.645677956357291, 3.865426897746943, 4.133901835332244, 6.591237985239054, 5.258139238140392, 4.077708673976712, 5.960416761656288, 4.035283641690805, 4.604506526848791, 5.246287438873288, 5.7940970465456845, 5.399235112743812, 4.641016359920784, 5.714456189219485, 6.124174578523034, 5.280186137219045, 6.589082379239004, 5.5615551937862415, 5.128657624323612, 5.305203038461481, 5.663420349031782, 5.158218690721993, 6.115366694330199, 5.995161056743069, 4.19205566125203, 3.521486057861789, 3.7043448903933585, 4.873183228220452, 3.5784716406007293, 3.42416308084969, 5.145280054073798, 3.4921639869779995, 4.151866422945951, 6.677463776710538, 2.528055562089239, 4.7637739822577885, 2.8838232757865616, 4.257424803485881, 6.081415796872129, 3.0272629981498307, 3.8565617859652837, 2.9795330473930903, 2.798856679701163, 4.732242023468605, 2.8063339530236666, 2.6780563874024526, 3.2955133965528516, 2.981230101017025, 3.9133301519895913, 6.907751825728963, 3.8932287730925266, 4.7594594320438155, 5.219162409437653, 2.907956757637462, 2.978572285322947, 3.3006359955549747, 2.076398900553253, 2.892079552764391, 4.332915709126377, 3.6381631274928763, 3.368454344586839, 4.161189883550758, 3.070049926092169, 3.4229523102963246, 4.024283919011156, 4.49932740686347, 3.283740451053443, 3.2984453167523475, 3.0246415598144374, 3.1280535352392405, 3.4379145236942907, 3.7486474246882464, 4.54777848679602, 3.298368827024012, 4.660051843817111, 4.145240184209737, 3.7024550487415184, 4.649291165524642, 5.092678766047067, 4.98646958053389, 4.549001414954787, 4.590473129614953, 3.415689790594801, 4.563479693823257, 4.24420307658189, 4.095805035161139, 6.093531629775747, 4.964597869803787, 3.8740242591295933, 3.7310321675044507, 3.25417683428365, 3.4748371510229132, 3.821304238382116, 3.57841136272055, 4.7122790542493735, 4.1073006774753935, 3.8934143505333045, 5.296095657568413, 3.267497532431713, 4.122861543311364, 4.1442370942545335, 4.904916573978472, 3.7683619878658186, 5.241348482341562, 4.508993054119795, 4.848606755181623], K Nearest Labels: [1, 1, 1]
Distances: [5.354457786121178, 4.33931146240364, 4.889463227486176, 6.52581663287334, 4.71962422955915, 5.833245802102709, 5.062628410526222, 5.5867433155829165, 4.82209409167756, 4.591693421343785, 5.711698793903519, 4.741761828189122, 4.754364778731376, 5.942460884975202, 6.690912235988867, 5.814893283904126, 5.823216366804326, 5.243672096320747, 6.817716390085061, 4.934076111712223, 4.7888055299671635, 4.280768773864117, 4.2243453268091455, 3.8511819582981612, 4.0247392474715245, 6.093480740740322, 4.572831159858703, 3.993982483000441, 5.007508159441775, 3.9599062413813515, 5.455446699345633, 5.403161072554244, 3.8680903900056416, 6.00286506360891, 4.545360453051929, 3.794446277796117, 4.7678866669449596, 4.137955417661033, 3.59457358010629, 5.813288231651029, 4.126513854164597, 4.0183984758130205, 5.303932747511928, 3.6313806700711884, 3.2251800187669697, 5.317135763490147, 5.114201302601071, 4.292633519593664, 4.469431243390444, 5.34031052317885, 4.96180969805499, 5.1905485863594745, 5.691560644765012, 5.623983258408945, 4.492116274337401, 4.8008292716899845, 4.798099159651497, 5.1049060371533805, 5.499428502143873, 5.193694348490734, 4.9252799962520335, 3.9892513294039005, 3.739892162687901, 3.3552166414130156, 4.199002253331852, 3.3167418844507774, 3.3091808384922787, 2.8847602289059266, 4.682416029842697, 5.386447025115878, 3.7765154483579084, 4.851054695901878, 3.4578659634664572, 6.543444829373666, 3.742244787139775, 3.2751087280988296, 3.051305084737273, 3.4809505115971566, 4.140419995609274, 3.7046513195909934, 2.744940497357314, 2.6557672894786295, 3.8384792959674163, 4.269111191777658, 2.9479259125785062, 2.5634029319443052, 3.3039036810912203, 4.379335195616144, 3.184946651031696, 3.15852181178876, 2.939168955690627, 3.107328989746506, 3.3036582833748644, 2.5168524596611657, 3.241790896460113, 6.003260265256603, 5.330521139711011, 2.297677961657208, 3.318798218103996, 3.690843647201281, 3.020328085532582, 2.572232064795966, 2.799666011671785, 1.787333495417335, 2.1922300296238375, 3.328834129215891, 2.038033494455288, 2.8838232757865616, 4.99087852115331, 5.227588611755061, 4.583555092335783, 6.2853828355898305, 5.696326348682866, 5.057282170057744, 5.798359430615121, 6.255082636115403, 5.901256681762161, 5.4911417793976, 5.583507401628795, 4.411250067509443, 6.01637

5763893695, 5.468385520478892, 5.975241326602445, 6.822629688831158, 5.786173098682834, 4.952501489817243, 5.24490841807133, 4.999481751709378, 4.740756340835904, 5.456594159923733, 5.432489417436143, 6.111935396891975, 5.409758218630884, 5.577607516169146, 6.578681288404037, 4.5928562905088075, 5.502230224539283, 5.58462961946794, 6.379921137182062, 5.301178407780241, 6.185758607390341, 5.564640297302054, 6.5155802270183], K Nearest Labels: [1, 1, 1]

Distances: [4.795165153738627, 4.701056737039996, 3.125081155780165, 5.551295084154754, 3.4046889516832075, 5.144578980714144, 4.6819614085808405, 4.916535744551196, 5.188844145171815, 4.35528657704837, 4.912579079291185, 4.69586035258194, 4.245601635148214, 5.613386813173294, 5.886782736099739, 4.724975420860686, 4.755767039677017, 4.387376305504526, 5.900037840520953, 4.238693724569643, 4.631495691385511, 3.227536149242295, 3.8540802537677936, 3.0178702136719835, 3.1010532506117343, 4.243432054903228, 3.679857883425368, 4.3469400379045435, 3.7499487002528302, 4.1538112638208355, 3.8827705689518894, 4.55129105992088, 3.828604094473914, 5.245186865755109, 3.639827208709857, 3.1675092675479086, 3.710233141683211, 3.4270771717747786, 4.144534220849165, 5.386950393333075, 3.883383421962459, 4.4758275977620245, 4.26404308230304, 4.022393900660592, 3.49735308208552, 5.143684373425594, 4.851559375638411, 4.340984441037158, 4.027924925729292, 4.972256747139176, 4.772920067436337, 3.965747681381238, 4.986099702134176, 4.617294553917913, 4.464016619926558, 3.7779857127103487, 4.629436581713627, 3.8061279572402875, 4.4237681456680304, 7.616259619466177, 6.082903877863523, 5.908309181997098, 5.461875569986329, 3.37486099351121, 4.5521975416636415, 2.5297792895691593, 4.791131288396696, 4.507655375573462, 5.685102842217015, 6.15145799086608, 4.815320643609707, 3.9972962819204167, 4.555725011899134, 5.264412973817574, 2.957045465396745, 5.043160152509317, 5.26291885180184, 4.703911703018364, 5.011680681163367, 3.6114981180364523, 4.070529893112245, 3.080723175601917, 3.770258068747198, 5.428989021319726, 1.830269876636452, 3.475022556486172, 4.017167005546612, 3.888715507173329, 3.45190346786538, 3.7839430548918265, 4.142429086506192, 3.9745929839209486, 4.830555144434157, 3.148693049861062, 3.2934035000083925, 5.670835239911874, 4.678660893735145, 3.7332798471945066, 3.2704099292850115, 3.789412676734013, 4.668394031672753, 4.679015120521695, 3.0046038672326163, 4.166033001120485, 3.7388035636848436, 4.804428725088326, 3.6431660576515545, 4.257424803485881, 6.054012245335487, 6.082349341791614, 5.946253152038494, 7.7541839705284925, 6.511237521317489, 6.044896183359549, 6.616499546163426, 6.510521193534318, 6.413305240795701, 5.399187261699131, 6.707203610566709, 6.069970158221195, 7.007017049291303, 6.564535309917711, 6.276061019313846, 6.829207608410731, 5.994084448424286, 5.911396448083747, 6.014680647375257, 5.744941815933976, 5.834730993975158, 6.64619417047578, 6.807159140151396, 6.433524679294164, 6.438663352307999, 5.74226379311596, 6.36012092911456, 5.866526571720213, 6.893065663018034, 6.490729349565454, 7.201051358188109, 5.913901638774255, 7.07264364061954, 6.421785801408043, 6.9518262257845524], K Nearest Labels: [1, 1, 1]

Distances: [6.09971737486263, 6.148802364986425, 5.085467513402358, 6.679009894307121, 5.925532462265147, 6.595665801300931, 6.500713271140751, 7.012947686563158, 6.304626771832585, 5.9579154786499435, 6.065152006565064, 6.6321472623387105, 6.290718977420949, 6.798092601776277, 6.7449083079148355, 7.0899515729880145, 6.716587159424955, 6.56341070955532, 7.517324716628389, 5.706618091957657, 5.701779320820039, 5.054730972154984, 5.924011636659689, 5.926849466489925, 6.030755902434212, 7.285495106811776, 6.323637569920411, 5.930620064635058, 6.574801583530839, 5.61510620952721, 6.234985147131183, 6.125253509307809, 5.7357245038228015, 7.476581597677202, 6.244040760970835, 5.363233762675215, 6.666468059639231, 6.071028479898985, 5.7780247066387025, 5.814670800869542, 4.953126572053552, 5.1619936869821, 6.268516897612223, 4.632685234123997, 4.376978826079402, 6.213346973866698, 5.400132933668511, 5.181997822452875, 5.4401085431230225, 6.221818718376075, 5.074934538978961, 6.310705345834387, 6.3434885112831, 6.777325124139712, 5.756727621187114, 5.148551313899294, 5.68358245011939, 6.268600766193277, 6.023255564221522, 7.856969544871321, 8.043129824999793, 7.137816793995933, 6.889827829419806, 4.987915582116437, 7.080037973312854, 5.359959590225815, 5.101591303115803, 6.177336072150687, 7.691844847488789, 5.712193962179682, 6.223840673488092, 6.654743913610188, 6.486455610828223, 6.872461175415256, 4.940928146521559, 6.031334316865086, 6.038587376767915, 5.923891305692064, 4.894867

992628746, 4.796122353240659, 5.8456835157497435, 5.098756967824569, 6.7404
95522065971, 6.34172445142816, 4.794942937244281, 5.742659501859904, 6.1547
57737213101, 6.87290485448291, 5.986975037332681, 6.2934506873183125, 6.108
29066839933, 6.2874046220566635, 6.592195576889816, 4.415702484419718, 5.04
680803355711, 5.3955478192691215, 6.414200753917987, 5.0129885018793, 4.685
787909841459, 4.406360917761058, 5.14357478039145, 5.903579123547985, 5.208
549726584853, 4.952237028510276, 5.24484885362479, 6.378400736615932, 5.444
986542621551, 6.081415796872129, 6.750774094254885, 6.386070790975153, 6.31
281171634181, 8.186415879504747, 7.377979351794811, 6.884398978375933, 7.05
3848269176999, 7.437323154897119, 7.232113717625735, 6.858831822526706, 7.0
11088278979733, 6.878927101364879, 7.115564777810553, 7.014090980189069, 7.
7637898500831035, 7.786803102002389, 7.195285616687702, 6.6579333660960005,
7.499047942558949, 7.311659381023407, 6.761729419812649, 7.687775076293672,
7.428993242154091, 7.396862386430318, 7.351786091273276, 7.283020125239695,
7.509273948553313, 7.009168070513537, 8.035167878419031, 7.725410629580114,
7.628269575775411, 6.710052372744755, 7.121419174682495, 7.144056788981903,
8.024879721181126], K Nearest Labels: [0, 1, 1]
Distances: [5.589552065157693, 4.277493977824499, 4.995837764545979, 6.4014
464899745045, 4.179760240637439, 5.816007263488939, 5.056221963389256, 5.09
52172600921735, 4.875405724026966, 4.572709849243231, 5.62313909524042, 4.4
52189760130664, 4.561171593442266, 6.3920763021686415, 7.0506874412228715,
5.376244070245506, 5.507479446459412, 4.997945052249449, 6.688578872268521,
4.271697789384823, 4.941807569474306, 3.5746535198372777, 4.01114556222228
8, 3.373996450016649, 3.430652395779073, 5.664350059114326, 4.1590900034940
44, 3.663907492181565, 4.55311660919632, 4.0549267380064276, 5.189753242964
543, 5.196654087072719, 4.028692229057316, 5.825795608610317, 3.98604620779
2412, 3.4288176530284704, 4.269779826476325, 3.55041282554386, 3.4205021599
985654, 5.454554777084763, 4.581588784275179, 3.145250521379971, 4.80599358
9884464, 2.941529649629967, 3.5679121142695833, 4.3903744866530685, 4.80499
2539308045, 4.410201258572109, 4.519669187242464, 5.483190566783643, 5.5767
49331632339, 5.052804052563408, 5.667044415712527, 5.412391464198067, 4.340
339094371259, 4.76081631928149, 4.850734325532049, 4.682562344873526, 5.290
124801812473, 5.3608050326902115, 4.906475191388865, 4.07294182744896, 3.24
6093940306207, 3.0970401587744103, 3.842538387062919, 3.517005655244292, 4.
148681945476965, 2.663671444965609, 4.393983658700027, 6.144857987696584,
3.844318742332109, 3.9033871109222886, 2.271664814624975, 6.008573790059779
5, 3.209497435696656, 3.4177862115468125, 3.417368667571268, 3.154004311086
104, 5.422003550100674, 3.0871940878528865, 2.8344167796548234, 2.433110696
8332286, 3.365810141773664, 4.086575650956151, 3.3463277046756876, 2.553759
4666921994, 3.1361533125050567, 3.799226315957214, 2.9286215832181433, 2.84
16417027312306, 3.3095035197306784, 3.399279384164099, 3.747968098798607,
2.1601783444090876, 2.3802315135169967, 6.820475422535726, 4.73787553514133
5, 2.664389191133233, 3.3352984310273026, 4.184062140991817, 3.121092057502
3797, 2.7461549999371213, 1.8146219325126511, 2.0394423037289235, 2.1982404
35185216, 3.684332954693418, 2.4217353277679483, 3.0272629981498307, 4.0202
64354092918, 4.851029521600177, 4.222967181115576, 5.370045096967413, 4.916
6317614635995, 4.65334315460717, 5.235345918029619, 5.484753375419363, 5.45
2485816804872, 4.835517122231093, 5.970792177595018, 4.983184780247366, 5.7
63724571814312, 5.1880950453053405, 5.636327771068887, 7.138637145971541,
6.089540953605375, 4.416021723980836, 4.572251517866517, 4.603473506045214,
4.181334610776415, 5.044878569229382, 4.9123178158261664, 5.683959083103987
5, 5.011549991636524, 5.143473169483889, 5.437849795088014, 4.0637290517875
08, 5.2781519250520645, 5.299609031524055, 5.6833803683293995, 4.7058466458
31077, 5.975957962644352, 5.740562749517902, 5.954504686808437], K Nearest
Labels: [1, 1, 1]
Distances: [6.372433027510927, 5.792298192511575, 5.429410846370033, 7.4539
265248840065, 3.716884829038245, 6.299337581828643, 5.948973256712394, 5.22
9269132976732, 6.46660687222742, 6.254593251103391, 6.644823322181802, 5.46
452631870076, 5.409535090152511, 6.922819112092011, 7.676776577873055, 5.05
822472662253, 5.466413153966983, 4.842598497853173, 6.860485557457832, 5.51
5390983077877, 6.312420231805214, 4.397120735721223, 5.401393385694298, 4.4
45782711691199, 4.554711793564276, 4.0010321802779725, 4.815326717899216,
5.274382005359515, 4.453613778974319, 5.867258997705398, 5.5597985565642,
6.11608840902884, 4.377644737114578, 4.701087447245252, 4.218900511829224,

5.0293764033937665, 3.863189617664449, 4.076649586911742, 4.99485905054224
7, 6.610145772895392, 5.787963576788647, 5.3334483702940245, 6.327726505705
157, 4.800752396255066, 5.7016607359887, 5.489887641863874, 6.4047080435059
31, 6.607429583047277, 5.487402737055911, 6.198616339784518, 7.192417600115
6885, 5.714824993134023, 6.5826729529545975, 5.0279883804337295, 5.85367360
57291945, 5.969992218647005, 6.308540815094731, 4.881454058970371, 6.561333
1312647665, 7.550859528730742, 3.6563457475373173, 4.433189837273116, 5.207
85124531766, 5.854716639772028, 2.6553155342711, 3.605879523478841, 7.02185
9565394627, 5.353138164702048, 4.092763119806154, 7.378768669502607, 4.2325
74287793855, 5.504402084649066, 4.794262853492275, 6.545346480030902, 5.690
410251089021, 4.558468155124902, 6.090797526100834, 3.369253098719925, 6.09
642625554543, 3.984941959326654, 5.051196569235166, 4.6255586865622424, 3.5
922243781983987, 3.9416473907955605, 4.959039753918172, 4.2985400288464914,
3.353797224863154, 3.3356634265236242, 2.8256194652592805, 4.32979038969358
85, 3.321375111323789, 3.125544006034818, 3.818642586468986, 4.833767469734
754, 4.910747335932379, 7.027912922072256, 4.82272949609085, 5.182932048778
054, 5.986664199565854, 5.057257730142338, 5.493179839215735, 5.11256177351
0512, 3.932562968831951, 4.966492144679042, 4.935776159380442, 3.6363937174
066865, 4.344570084635544, 3.8565617859652837, 4.430532952120524, 5.3369665
477686565, 5.057247786365121, 6.260787821009062, 4.998833931335879, 5.13930
6801232945, 5.557372744842051, 5.882480154697503, 6.035858789148753, 5.3956
42771891055, 5.659272432829059, 5.216688221762987, 5.433771430453632, 5.608
182589377755, 4.389251776510695, 7.130796393568969, 6.084643418628141, 4.74
9564956125537, 3.766703786244301, 3.0918531284567505, 4.406256487805135, 5.
4913212912954235, 5.073492529124424, 4.980999094862003, 5.202017585862062,
4.79285992365824, 5.384612999299585, 4.389242846070635, 5.450202268907507,
5.534178324668521, 5.434954462368393, 4.725227582177178, 5.886753713009906,
5.157436611741463, 5.4246491514278095], K Nearest Labels: [1, 1, 2]
Distances: [6.201217230207217, 5.08200748654779, 5.056204259226186, 6.99983
0892807084, 4.172211003418232, 6.086075141279575, 5.689261356854516, 5.6185
47767188141, 5.761316183747244, 5.309835809166145, 6.1666046331028, 4.95648
8555091148, 4.850286706090393, 6.551262421489068, 7.2736143980050825, 5.254
429428824871, 5.649519273337876, 4.85099116103755, 6.731208904814744, 5.427
2791241522755, 5.76428593347312, 4.509951041943811, 4.882855214703385, 3.70
95441511281297, 4.031290916868127, 4.985960370417108, 4.433829908153269, 4.
375188532421413, 4.585956879854615, 5.002656955813085, 5.040469481851454,
5.518395758496876, 4.144595821591514, 5.445406239250498, 4.1733693337571,
4.182144758430751, 4.057543380219047, 3.5065881485987442, 3.96211439665634
7, 6.764460409757098, 5.099308446501934, 4.871391873584216, 5.6819731600862
236, 4.582823427119295, 4.495934127769891, 5.813838765525563, 6.10019890119
852, 5.478989343762591, 4.962213078507438, 5.795772526283205, 6.00079866537
1496, 5.273718520449582, 6.063296454278856, 5.312988202006102, 5.2509639313
10126, 5.21337895118872, 5.678286899275053, 4.689487770228134, 5.7500934207
01308, 6.049415544009028, 3.80114423141889, 3.79487724168627, 4.11826001698
56025, 3.5448644051700677, 2.625995204233969, 2.4326273286499696, 5.0095614
791691, 3.507087839722082, 4.004714459163706, 6.520168436799056, 3.63720283
7101197, 4.3562682364260885, 3.5703873478473067, 6.142726369942201, 3.64277
1403431004, 3.403452488556992, 4.257739657094702, 3.4471143377193894, 5.275
17634762011, 3.8378289925120876, 2.900571999425321, 3.167748000187033, 2.15
42751831976723, 4.372517630645454, 3.1406115259620018, 2.78055721098657, 2.
1930934684548853, 2.716805138390484, 1.9767563076309418, 2.536952549420160
4, 2.4539245981571707, 2.317031317264599, 3.1319614301816614, 3.43532836562
34894, 3.0282084524947415, 6.690154596612494, 4.695215272665558, 3.13715605
67195544, 3.78323705829741, 4.200835512769186, 4.027558291105727, 3.5816602
96625328, 2.952212749390878, 2.723333571295484, 3.3157556279212996, 3.69610
5254686243, 2.874024692479101, 2.9795330473930903, 5.125196858088389, 5.517
5816376169085, 5.0757526534630335, 6.612070728909251, 5.541494012256569, 5.
098913059680427, 5.88384425443387, 6.079294569911868, 5.832599517013932, 4.
901764881029894, 5.947853686413713, 4.658253205724709, 6.199091054597391,
5.8641875775077255, 5.074536653910481, 6.876087121234676, 5.64156985211183
9, 4.702104363440341, 4.770155874836316, 4.374194105594198, 4.8098453741355
24, 5.495130363215989, 5.63529499744363, 5.753576006511584, 5.3050432235299
98, 5.144594605306375, 6.112281267011463, 4.4061610603692385, 5.33365825147
1256, 5.621109418024481, 6.493973113360817, 5.178403994588324, 6.5077990248

71188, 5.644468591240462, 6.222515535808443], K Nearest Labels: [1, 1, 1]
Distances: [5.916316593270158, 4.909236713599219, 5.061839216643505, 6.6534
82839498049, 3.900344276716052, 6.01251056940854, 5.3263077008045245, 5.151
495939532994, 5.574651133573224, 4.968472926956666, 6.115571406415906, 4.87
2080902739477, 4.79982672488656, 6.657574372748853, 7.4126997935472785, 5.2
75588148918095, 5.535911939238748, 4.7989597854843264, 6.722368938745707,
5.026836177489505, 5.502867596773917, 4.041334017997715, 4.329289474691274,
3.3282530192852207, 3.3324127308568885, 4.761997225711593, 4.00456140707479
8, 4.274635103648169, 4.224222137846434, 4.637688701022584, 5.0770012869408
845, 5.5011506408627175, 4.185216493372997, 5.3641566837999255, 4.048923942
528414, 3.6786102574576636, 4.0490245865679535, 3.653199506149804, 4.113732
5108036435, 6.339703339515855, 4.920047896048728, 4.247204678693689, 5.1919
04445789461, 3.970735942260329, 4.24165381112866, 5.000266272611518, 5.6165
691364079, 5.169611156913733, 4.889374276181715, 5.693776362039116, 6.34614
4250028572, 5.215703350377557, 5.859936512472201, 5.242613911421237, 4.9962
588976443225, 5.170477600341509, 5.383034913491854, 4.6184625785497255, 5.6
40428180506863, 6.431636022473407, 4.4122020259372965, 4.145779148851507,
4.014827488614813, 3.7344359501796616, 3.410222886636272, 3.30791655145029
2, 5.02948030892105, 3.0787616187934246, 4.0866717252281095, 7.104373301884
183, 4.174476639072229, 3.9244464522746667, 2.8087149937464537, 5.967828783
25929, 3.6920593953179455, 4.135848334901206, 4.527252902466305, 3.52271842
47577994, 6.084544774921296, 3.363229944980803, 3.212722045675449, 3.071644
437185124, 2.4751422700782166, 4.040622749557931, 3.4285369986613174, 2.896
853786140998, 2.9047474826838773, 2.732774283851894, 1.9728244332725016, 2.
003674414004826, 2.9937048348074136, 2.604403780611106, 3.343465364258814,
3.2787167976121805, 3.231589264423159, 7.314059151155643, 5.14126489933874
2, 3.5501473407270163, 3.886102050493159, 4.577565178780346, 4.245303205874
19, 3.6454837063252192, 1.8463793154601649, 2.921594674656775, 2.7497492682
123674, 2.900601862631683, 2.654631751806914, 2.798856679701163, 4.63210364
1139691, 5.529669011894804, 4.906095912886096, 6.165345948172135, 5.0495775
21086887, 4.832460258853111, 5.7833754765588195, 5.9935948986171415, 5.8232
85670128575, 4.978014907402678, 5.98721884304343, 4.937240200933382, 5.9572
96851437665, 5.5540797808180375, 4.8978231071177, 6.746669146552875, 5.6452
94818992837, 4.470766560608805, 4.599096398651537, 4.151520312605828, 4.704
800091467077, 5.244787169273406, 5.250052192768563, 5.741965392078473, 5.21
5373247981806, 5.030864537933356, 5.695744104838248, 4.356424208846315, 5.1
9264395542745, 5.359794793942191, 6.035789210164914, 4.998706881585867, 6.4
38557439460885, 5.73226029984252, 5.774257108084506], K Nearest Labels: [1,
1, 1]

Distances: [7.150053394344815, 6.222934264313225, 6.076747377343995, 8.3006
63253401153, 5.6915615738639085, 7.245956053222875, 6.819477894646271, 6.93
8342524152772, 6.785507653212071, 6.574953137031743, 6.7460285167013065, 6.
133292354172516, 5.977926287531725, 6.991891479103351, 7.842616326249082,
6.425519634290409, 7.004990828634289, 6.1956692488007485, 7.63398417565039
5, 6.846231071452388, 6.696409997267936, 5.636319475385061, 5.8238681829989
15, 5.1562572087422, 5.26197692060035, 6.206787270657457, 6.16745859600686,
5.776215303285052, 5.6083172890955515, 6.053275454753811, 6.11318965374872
9, 6.694537189592275, 4.909564969614544, 6.45153749645715, 5.74717446743318
75, 5.498318832859678, 5.856625539237993, 5.22016584256368, 5.0676233320828
21, 7.890609545363017, 6.243273437247208, 6.0397774454348045, 7.26326494469
4383, 5.996278103196503, 5.804526653885506, 7.17794792492156, 6.85417976457
9597, 6.703761755269582, 6.072663825317511, 6.74238776232752, 6.61115957591
3081, 6.141921313603948, 7.22563132994368, 6.558544056951125, 6.76330877805
893, 6.5423055569245605, 6.982586007599683, 6.17770291345245, 7.33468375002
6624, 6.969495339623782, 5.009375363465076, 5.553632351323427, 5.2245329918
38789, 4.48113351675024, 3.523451218012031, 4.011698342406248, 5.4476486221
585905, 4.55348245440881, 5.888118377338843, 6.710774652827969, 5.447304966
258364, 5.158828173655263, 5.365322290697193, 6.719014179641071, 5.29988820
4553933, 4.239224185566806, 5.091685819412025, 4.96188674853588, 5.94861978
1634773, 4.151196423832512, 3.0763015863788294, 4.199458223554033, 3.241145
844045021, 5.631343742763902, 5.2796638325048795, 3.9292562693441617, 2.935
5981131678153, 3.33708915092526, 3.8342019657298705, 3.7856105616464046, 3.
752077576133238, 3.884861467185663, 4.59346051300356, 4.034577925856659, 4.
36614485660779, 7.028350768870826, 6.532264135492602, 3.7692462802508997,

4.996259141310425, 3.2857698754433264, 4.259677229746591, 4.78080743786519, 5.034557866224859, 4.16236545909332, 4.283339095668613, 4.746119145020194, 4.135495602351341, 4.732242023468605, 6.415602064565145, 7.384208935272362, 6.934621586660143, 8.314582191312063, 7.553096682919713, 7.312721780898716, 7.9732791459667, 8.357755408497964, 8.265969896079019, 7.484272859210994, 7.680497741879373, 6.818081818070633, 7.659004900152867, 7.720817210248421, 6.998167050210997, 8.65453077675301, 7.705913196846266, 6.869020989212757, 6.503593271210656, 6.0977925589484565, 6.881819795503204, 7.49326437212294, 8, 7.07521406363396, 7.477451001906851, 7.2432195693666745, 7.2567044153926, 5, 8.165182632623383, 6.616911693804053, 7.574719011583578, 7.7939422832166, 83, 8.060937951254868, 7.09773253525716, 8.274105716029528, 7.6416452780359, 5, 8.122037516568426], K Nearest Labels: [1, 1, 1]
Distances: [5.881161028238054, 4.449248921565113, 5.307994059995388, 7.011159793775577, 5.030390072745676, 6.333331112014314, 5.275296493167238, 5.553587015211428, 5.399065299270824, 4.934159499989281, 5.920346973758862, 4.6622827278367955, 4.831294306108155, 6.7942170584278605, 7.3324849580355735, 5.882923859751319, 6.166291673132467, 5.659709265286899, 7.137464064488506, 5.142475161163264, 5.404024181592885, 4.22755814664217, 4.230308938939558, 3.4622922046428983, 3.8351222652139594, 6.196772846797005, 4.66662873445890, 4, 3.750992887658006, 5.216768221483983, 4.209058937406635, 5.6699506001836, 415, 5.497971298919185, 4.276305813014727, 6.262394851098474, 4.48120685424, 2855, 3.8988863208380007, 4.945223063480711, 3.9869231733574795, 3.55536539, 1649637, 6.362460272090242, 5.037707645884459, 3.8831667258882208, 5.557515, 534180405, 4.00058033099337, 3.857878655841777, 5.391190761685261, 5.586532, 022736306, 4.884295695121634, 5.029427901816105, 5.8181555371347615, 5.5238, 67125658766, 5.241899279021249, 6.324371650467734, 5.892653997746272, 4.767, 590040820421, 5.1774159268585525, 5.4425358735052605, 5.280986880162931, 5.932021173300978, 5.001744576498376, 4.8904766570668485, 4.272463935472289, 3.5010842955375496, 3.69189904804378, 3.9820505751275626, 3.73609516957100, 3, 4.098566224204517, 2.010748445988381, 4.834537491425912, 5.5606260027973, 91, 3.3671624726651794, 4.771413015080996, 2.8606510193828183, 6.4164894285, 438265, 3.4275293897570247, 2.972162643663346, 3.1670361218750505, 3.196864, 526789394, 4.941886202944416, 3.9101254798709415, 2.3947252847557823, 2.382, 1333142421253, 3.030544735944765, 4.51762879328906, 3.1264168107243457, 2.3, 660572552684727, 2.884657266730887, 3.4635138938205037, 2.602699111850879, 2.2329200092547343, 2.9035234921446302, 2.7872128040765514, 3.4373854038443, 907, 2.5042494330485083, 2.9830592956439985, 6.668123873644253, 4.917513692, 147213, 2.5837283220237612, 3.8790164695858604, 4.390267241982618, 2.608229, 5704556437, 1.8182345359883365, 2.6145958888135494, 1.7506859182487753, 1.3, 521748977881223, 3.4753380658331468, 1.5302776525272463, 2.806333953023666, 6, 4.944034382391975, 5.0343691551901175, 4.536234852837316, 6.090416870038, 698, 5.571566246470497, 5.2555425074083875, 5.939105741653141, 6.3235806133, 71754, 6.019612969209186, 5.690903118241931, 6.239016400696122, 4.782389481, 737993, 6.280299808406429, 5.8913057779697375, 5.895791478865721, 7.6063836, 30159283, 6.4840848849934964, 5.116139018103905, 5.2306929342704525, 4.9725, 46662345299, 4.640882443146591, 5.458439534371028, 5.413474122139518, 6.280, 076907587387, 5.3218075682680395, 5.609541119099021, 6.43745777173736, 4.25, 6004405753034, 5.508121856282225, 5.834435123747291, 6.441490130185376, 5.3, 790754804005845, 6.432434291768234, 5.963837470222347, 6.800419881614593], K Nearest Labels: [1, 1, 1]
Distances: [5.059217160840624, 4.640817216195849, 4.815997094269957, 6.5665, 46776856749, 3.6722650292746257, 5.779855234777553, 5.131015286471455, 4.77, 9587243648284, 5.084278457508021, 4.7969416093949695, 5.5021630796898675, 4.450459919257969, 4.770427943324866, 6.43874869008194, 7.043068177064448, 5.15604695384349, 5.0913928237042985, 4.59695638678335, 6.636174851175326, 4.451850710761891, 4.496562525462064, 3.7023668957095675, 3.984835122433397, 5, 3.440493972115327, 3.3401399568767087, 4.748856311323767, 4.542592118100, 506, 3.949313752873711, 4.223075200016767, 4.164800244241252, 4.91336717092, 8931, 5.119303223110354, 3.531683315548656, 5.030145422250209, 3.6178454370, 7718, 3.3678166540586734, 4.107480831463053, 3.573953316900013, 3.513783936, 3587173, 5.545755725232781, 4.287479108447644, 3.9783527610801435, 5.294293, 417188193, 3.5612179764603074, 3.6318551928913787, 4.765159972821774, 5.185, 375950176319, 4.7060251674352145, 4.342235027619798, 5.3040056245189895, 5.724207637997201, 4.935398223709399, 5.869623651479759, 5.136640370631884,

4.19588294720772, 4.408916180399585, 4.747109800142573, 4.8094058587224815, 5.498755490014598, 5.842046499293823, 4.550120292729665, 4.012787117424966, 3.3495923103072593, 3.6862441410044493, 2.9916641490164095, 3.038459645517219, 4.644428128469205, 3.1389750944633263, 4.169978666020407, 4.803390231849282, 3.1529182647825222, 3.949795461278588, 2.5474857865641574, 5.026118248921587, 3.503520136612472, 3.18859257101928, 3.6043359227821328, 2.7035652932221126, 4.1587631945951795, 2.9196418499894783, 2.723068073075402, 2.6181709437677263, 3.024349446573232, 4.153165730101224, 3.2271768186689824, 1.943910010981485, 2.3146288357607694, 3.0903171838928953, 2.8326416423382716, 3.082626901726173, 3.0838145746601127, 2.700581619501842, 3.4185132488859344, 2.639836209027899, 2.9600395198813785, 5.363964846162274, 3.8103771539097258, 3.017723299127044, 3.9591949740496246, 4.030445929823711, 3.097433311147167, 2.6298155611581615, 2.2745147815429214, 2.6310220600296583, 2.4022491563566795, 3.2540851517275993, 2.4975943346871445, 2.6780563874024526, 4.55337649688559, 4.905666774621047, 4.314788236457197, 6.09293599233453, 5.528764924128773, 5.029062054137327, 5.290085896679107, 5.2844843309101535, 5.475281912425405, 4.6168207631048075, 5.9576421221980524, 4.627631165918599, 5.991554048605688, 5.615238587871143, 5.440853696527499, 6.958883767029787, 6.113429245501853, 5.066897883233539, 4.429883685507792, 4.217066414674202, 4.270480712194779, 5.214688538002169, 5.109863802340927, 5.437129302845909, 5.369539242488594, 4.826877746976152, 5.59938542630549, 4.3002422756302945, 5.605875932062645, 5.516908677786756, 6.098395089670187, 4.776936278967295, 5.858484487467075, 5.293226109991752, 6.107819126042408], K Near est Labels: [1, 1, 1]

Distances: [6.968930272629577, 4.980250490914448, 6.550518094749829, 7.7752333821345365, 5.882887619819373, 6.838689261073597, 5.872994919282682, 6.250526324822337, 5.677202129455704, 5.970608443898438, 7.0730872269949945, 5.33114313753093, 5.543454848221385, 7.077921007706102, 7.968953585964006, 6.6074737934943535, 6.843531549549442, 6.386361178159661, 7.775966518907238, 5.656829062313352, 6.574243489003473, 5.105290061642167, 5.5965408542321615, 5.0933263337258685, 5.466994137886664, 7.4462137363598275, 5.301060069557126, 4.517990660792922, 6.324972527311924, 5.283366623262883, 7.041009384585224, 6.608103916973848, 5.1334415040968615, 7.021004355138181, 5.4450120596893825, 5.448756832725218, 5.465228550602227, 4.878453740361839, 4.4872051183868855, 6.5029106288424465, 6.064256681492953, 3.99566164468772, 6.37879091680787, 3.88217300710837, 5.1785754105100725, 5.3307562801761925, 6.02915848627989, 5.862702422833783, 5.818903716754477, 6.59022384912988, 6.533704115418551, 6.512103076610695, 6.979666892430518, 6.50248503549421, 5.607069653874205, 6.581930748939057, 6.248941485953251, 6.004446140734822, 6.836430244859778, 4.385409537161336, 4.342337704603548, 3.1456526351480023, 3.8026896906123526, 5.660175094997083, 4.782059135478506, 5.021823544148062, 5.413061175004535, 4.017144854266829, 4.35699810279168, 7.336983098619189, 3.7205024160406253, 6.537008774035696, 3.876687702719622, 8.616683107574717, 5.841127258860638, 3.4209402604923227, 4.000582025453959, 3.124175475724375, 6.0918636371128585, 5.023332176134082, 4.790139117059431, 4.255079411537643, 4.9875104556280245, 3.2952705005481273, 5.1588726260326405, 4.389274621052055, 4.386856043510737, 5.626713078046282, 3.801309877675727, 4.405164393314716, 3.261523539266028, 3.903737956943896, 3.320320522541446, 4.25352101185287, 4.852806563933551, 8.23632019513915, 6.067918388422042, 4.212874760244215, 5.621813702755054, 5.652018274674031, 4.282923834814531, 3.2139630300813176, 3.956847921268957, 3.1962081894336727, 3.8887396064073263, 3.7322386110410735, 3.2790932345385637, 3.2955133965528516, 3.0138634108941416, 3.944208421431835, 3.043531461538882, 3.2024279597052927, 3.5385613952949164, 3.6793556475701905, 4.46578448529333, 5.629727125496465, 5.217433552094614, 5.731521816508161, 4.5729951296183895, 3.8858394855183915, 4.3058195916278885, 3.8229299889727266, 5.296781740587439, 7.444538208167123, 6.085093632024215, 3.3719180619413596, 3.8779795767511915, 3.9519389276790973, 2.863975288796093, 3.979279316507986, 3.4062480205689885, 5.332060888837208, 3.660907384450857, 5.158807974263894, 5.6876271361140756, 2.5498684802844074, 3.6244335943917574, 4.309294214363064, 4.183826501661119, 4.149174441650946, 4.916992174232873, 4.878287293684821, 5.352493307104278], K Nearest Labels: [2, 2, 2]

Distances: [5.827613751637353, 4.459874825309674, 4.99631776717431, 6.924674234594273, 4.816839725404364, 6.160754572525049, 5.129906684633892, 5.5414

872733338925, 5.251292304843939, 5.190733615398272, 5.75795278118405, 4.778943779825976, 4.791541389752373, 6.349043989361842, 6.995812441589325, 5.9367231415298685, 6.063419226705189, 5.6859651342505995, 7.100706967266277, 4.8485410694743, 5.480731975302533, 3.6337154935503957, 4.333746467671878, 3.8510063865770805, 4.117947663232577, 6.195784189496191, 4.670626745230591, 3.861622935281028, 5.225140408312777, 4.258451872095348, 5.7480107402058005, 5.592754277669918, 4.054489475308336, 6.27459364476414, 4.561987434124861, 4.146510278421441, 4.9806588752025425, 4.122048256635107, 3.736502465282866, 5.721369461560029, 4.9566999537779886, 3.175243952929666, 5.6059315448324805, 3.108896286890969, 3.9144954094920856, 4.83954397461572, 4.949822300654763, 4.933001483275504, 4.834474269274022, 5.818276309812059, 5.365078654206273, 5.281639225401122, 6.23507542093457, 5.766885890918232, 4.911843190878337, 5.254466130059353, 5.443373979209147, 5.210971215936078, 6.014630958056617, 5.345974592167076, 5.025730753190704, 4.476267952149912, 4.044962961941693, 4.314707699394165, 4.303151663706197, 3.908206658012918, 4.426407787438454, 3.320248399418589, 5.050691703712992, 5.78592415780111, 3.517630419674765, 5.256135271711249, 3.638730794151595, 6.813702306802846, 4.219548348444609, 3.210594135360284, 3.8473032999481585, 2.8738827866639785, 4.854027177934105, 3.167986360444126, 3.4423838462420893, 2.7772670642877793, 3.786935311270668, 3.6371794169597242, 3.694262806339451, 3.216112502707337, 3.2593722862642456, 4.137240777114558, 2.7674293488955217, 3.0998249601352375, 2.76546636030991, 3.17542521422148, 3.4238446010700563, 2.2346487021950705, 3.5154371489213476, 6.477372093402489, 5.132622141322625, 2.9705273267764456, 4.3378723967438075, 3.5851298276116967, 2.912119552662109, 2.6414037641914327, 2.8141768854949034, 2.2298654007324585, 2.273941241399299, 3.2145801601399344, 2.120457087014246, 2.981230101017025, 3.888574775355793, 4.608056960224624, 3.853905983091682, 5.313915880157349, 4.930200014247506, 4.91588594596163, 5.5653160973039215, 6.266015539098366, 6.108189973987565, 5.912616207123762, 5.653283898549756, 4.922968677480513, 5.260687757512704, 5.203766831634365, 5.690972660140599, 7.576476181646087, 6.473963495770345, 4.598451105126987, 4.830411826708986, 4.56977823771698, 4.1350315594739495, 5.40535822161223, 4.711639650890517, 5.9264436665711635, 5.0915831500748565, 5.563915271203403, 6.069572677940395, 4.064119717974961, 5.570829777907297, 5.703523639752081, 5.434454082336995, 4.8135869226323695, 5.839320453585832, 5.687767883586469, 6.292223833898591], K Nearest Labels: [1, 1, 1]

Distances: [4.920853674327999, 4.205906325349696, 3.7685702615063184, 5.529308837244951, 3.5102891962699676, 5.196231045387747, 4.7825621355688845, 4.7337928068932555, 5.173457696946841, 4.236680374806348, 5.1660775297629185, 4.760129302485977, 4.379450391116174, 6.071476892178501, 6.308463539743264, 4.878236620358521, 5.031143743902686, 4.524420115519822, 6.051674167467493, 3.919267661586943, 4.579174109261784, 2.947789505206345, 3.7473062012097693, 2.9544557224045067, 3.2552288839995716, 4.793280384491715, 3.5483091687903188, 3.9440688468480043, 4.117733763495292, 4.06093479913301, 4.575587730499562, 4.636839892298464, 3.9681470129180396, 5.279301641627594, 3.7908868332696644, 3.113079905198282, 3.8773186639170256, 3.490160374268915, 3.829663856432403, 5.030584063499342, 3.785514252453178, 3.54296846650368, 4.209342915009138, 2.9651399440220447, 2.9513743657913905, 4.363630144018082, 4.552953140798391, 4.118951444643225, 4.240249675214962, 4.939987713216133, 4.9986773053419675, 4.585800943464451, 4.844455059894021, 4.715061897311815, 4.131517597056918, 4.043065568833494, 4.469673926175285, 3.90842684793682, 4.530372342451513, 6.797157527613188, 5.603520304976927, 5.099561333005015, 4.900367434459783, 3.276859682245209, 4.519957487595334, 3.110095781680628, 4.534724473177381, 3.778395922788637, 5.144411067045093, 6.104330647270342, 4.498189249677075, 4.527567653980711, 4.052468552914498, 5.497170524009748, 2.6771565585759993, 4.406570185155402, 4.847680150199392, 3.6979923475306213, 5.101346016958723, 3.0628914177177395, 3.8086196667405834, 2.8915085022345846, 3.962421674333357, 4.730631359185311, 2.4862158672816963, 3.3490132753605795, 4.001671361757711, 3.9785413763682334, 2.9448645364342605, 3.4780401609305365, 3.9239624187887148, 3.8206727509813216, 4.587411292310146, 2.7176263082920094, 2.639825691826302, 6.022779303739867, 4.687091101712337, 3.4321570452189123, 3.0264671257865876, 3.9486973794299556, 3.9011846633101777, 4.1611661148173, 1.8312738274306888, 3.210196311339782, 2.982084469762753, 4.020206761733742, 3.1267961241251028, 3.9133301519895913, 5.122021866

889504, 5.079836530452644, 5.0674634496573745, 6.834850916254072, 5.4783810
08487908, 5.231428651884224, 5.772736746846979, 6.036368328405279, 5.772809
315092299, 5.187938334632136, 6.040760467910884, 5.4139452387999425, 6.1138
4427731826, 5.813715931546936, 5.654128042742856, 6.8411952520988795, 5.851
0460704063005, 4.8151698195408175, 5.393391291227569, 5.046344483375581, 4.
967121111268368, 5.982465544501868, 6.003247956075772, 5.94603669822051, 5.
595436142220643, 5.475793363858156, 5.735993880347437, 4.916053169182994,
6.021267501562619, 5.9721349605117995, 6.255939363821268, 5.23509301078979
7, 6.200270723234129, 5.791097592246114, 6.379068168208667], K Nearest Labels: [1, 1, 1]

Distances: [6.79894864201626, 7.955464815184808, 5.743619443925145, 7.09868
6352685943, 4.533695949420274, 7.119013485430888, 7.569659041569381, 6.5788
79962180004, 8.070789885484858, 6.98661029060883, 7.350446603055378, 7.6638
84529820377, 7.275631087331132, 8.28767521515053, 8.385246704081153, 6.3824
63956503435, 6.0175107305717095, 5.5503360904402195, 7.364097072410748, 6.4
91498200842338, 6.704369142170236, 5.795767659018681, 6.7072563128814116,
6.245841298353873, 5.753729535971722, 3.8604039414508793, 6.32399767539940
3, 7.645000386194323, 5.360134988316671, 7.419636024401228, 5.6955563965228
22, 6.807167667832325, 6.618826284295783, 5.919266125971216, 6.014518604294
129, 5.717260114028066, 5.928192724031014, 6.413085626611823, 7.49554130721
9799, 7.247466353477682, 6.1222365731687045, 7.207016889865294, 6.646696176
584585, 6.468158441656447, 6.500282263979645, 6.6656234611213065, 7.2425208
182176, 7.150740448318839, 6.4784682153392925, 6.80707873125037, 8.32491816
1780456, 6.843594279353897, 6.81645967036328, 6.28826236342659, 6.907779038
012274, 6.035332475623972, 6.788561236582681, 6.00856041700233, 6.581735446
613891, 11.211496062171108, 8.299565836535063, 8.171310683536138, 8.2794272
6682167, 6.549970483617526, 6.753852318837134, 5.804888472685929, 8.3052048
67836832, 7.637219195596988, 7.699327447625288, 8.99530790518548, 7.8240416
32643167, 5.822153260710948, 6.936552876314593, 5.187250462952047, 6.295292
6718138, 8.265815024275772, 8.749038746700643, 7.177619001029618, 8.1457143
32579317, 5.403702687595661, 7.362591771611239, 6.716951857373909, 6.533577
3955538645, 7.2020998862040395, 6.1793083210911846, 6.858610228140347, 6.75
5104143253958, 5.837136190300401, 6.229795926659942, 6.820760781014826, 7.3
61230090240918, 6.6854506559452185, 7.561913247831475, 6.823427601668894,
6.52534027330973, 7.570382161510722, 6.790454657620777, 7.550922826805513,
6.3916588710386835, 6.820497179273363, 8.040097368236346, 8.26969700420848
1, 5.532083861582201, 7.592744038796518, 7.121358667278195, 6.6020278504317
265, 7.144227780075316, 6.907751825728963, 7.993155195529973, 8.19862244537
0537, 8.31487123930025, 9.810742992157726, 8.007268384710185, 7.76742162531
2193, 7.831721714824136, 7.364167285026841, 7.627202092477467, 6.4126759546
48525, 8.337803559400077, 8.241227979341186, 8.377280504209013, 8.291720102
641996, 6.947729508957908, 7.348455532702463, 7.198068830607567, 7.52694654
6638962, 7.615698459210533, 7.007183240099735, 8.034903643745007, 8.3459545
81888373, 8.516340375277233, 7.313458092428831, 8.341734171626587, 6.958339
122429397, 6.910478395191294, 8.16631165475208, 8.64832444251774, 8.2091399
19756637, 8.534733424806541, 7.4412492082347965, 8.389039368690437, 7.80860
7137548584, 7.540660513379065], K Nearest Labels: [0, 0, 1]

Distances: [6.256329349194024, 6.4776577128221104, 5.140876766327542, 7.172
042929922879, 3.4732586053539283, 6.737690702544018, 6.170422452978031, 5.5
47000244234716, 6.6208244454025476, 6.272757953370537, 6.52058901742384, 5.
990803714888886, 5.959227701420672, 7.471106421672159, 8.025886487479198,
5.985045517279595, 5.588168091542266, 5.363574362544949, 7.50347643094881,
5.158173879090878, 6.069138004509303, 3.5015457385417115, 5.3423633123754,
4.7664829308433605, 4.235929821208512, 3.9320902614728386, 5.32175444759110
9, 5.6608294860762225, 4.6811481888263105, 5.73994424091354, 5.415544586574
183, 6.2291892943132705, 4.968631407732858, 5.725586175362855, 4.6296322037
36486, 4.53291741537292, 5.0071291327801335, 4.853245171162317, 5.705057036
368412, 5.916406460722423, 5.611711434807837, 4.536794468408537, 6.15187191
6823443, 3.8506196323601634, 5.34516021135394, 4.694252733759278, 5.6838649
04476784, 6.225451095690317, 5.305015926108873, 6.470370102265973, 7.354404
985264619, 5.918761818805625, 6.855174683272906, 5.793072895587204, 5.83800
0296713552, 5.402607848749087, 6.069259890633203, 5.488615421200515, 6.5139
11866457784, 8.470499730190724, 6.17209205287718, 5.928153804173839, 5.8301
13016233934, 5.598758368216181, 4.673870611916573, 4.600370602797126, 6.895

367473630705, 5.48191054603499, 5.757544519463057, 7.346623540291942, 4.931398122555328, 4.562524993546958, 4.143869048914295, 5.399305239393409, 5.19913099435028, 5.657756240680406, 6.46806491883737, 4.0979452814998645, 6.583689849385254, 2.419984724494285, 5.414174144692222, 4.587316438221741, 4.210019719957637, 3.6570285824843274, 4.755800064081148, 4.770753181297135, 4.054359224364925, 3.6514152546938945, 3.55050886295011, 4.241269384830891, 4.446058481169867, 3.9173877593771094, 4.641486620770841, 4.0872082780473145, 4.798313057467653, 6.852734103693476, 4.706013560230023, 5.50427588706043, 5.768953776266844, 4.793316279422789, 5.68319390599791, 5.323368255481676, 2.977036849432704, 4.870516129945039, 4.565216965068649, 3.5936449581226793, 4.478386742809225, 3.8932287730925266, 3.9671855024003064, 5.432333119174847, 4.683458486436066, 5.795296101495956, 4.72182215207422, 4.998450022301188, 5.326536498264886, 5.327078642269553, 5.8543337319441955, 4.7553886784507995, 6.070543225370745, 5.950603301807567, 5.077173986879711, 5.313788815512671, 4.6180055863625595, 6.7461568327117645, 6.11328622604657, 4.700934203396953, 4.559194138611356, 3.8875213676284694, 4.729272116950864, 5.632337190150463, 4.758611188559767, 5.097083710713542, 5.685636572631626, 4.6793759474295635, 4.37973019411867, 4.920017426257524, 6.18665437246745, 5.8066843390366225, 5.075841935864006, 4.314868403410592, 5.869516873079475, 5.74143545151112, 4.986403402724743], K Nearest Labels: [1, 1, 0]
Distances: [6.199263855872773, 5.713167375924255, 5.2730757796374865, 6.69593564970557, 5.020581841662635, 6.4902966214751325, 5.760784359997598, 6.062230734552841, 5.736186324831804, 5.66814614689158, 6.100610368798637, 5.83382625287504, 5.672536891435644, 6.758985227819895, 7.273745181085507, 6.529853248103486, 6.2229369427319225, 6.082422652921777, 7.385485727111682, 4.80025475639816, 5.829817098956096, 3.6765647032873123, 5.157194345193254, 5.15541996046446, 4.863049052550465, 6.5318620998425, 5.384669865291109, 5.27900097572344, 5.6309206800408536, 5.112410338408954, 6.065154619895257, 6.117282029503483, 5.224960047726344, 6.994427324601605, 5.43342888631925, 4.665102602538196, 5.850840688454245, 5.351465699525074, 5.3748533508633205, 5.123491849901279, 5.321494383541239, 3.2479521099511866, 5.648074594430746, 2.8293762233278246, 4.677436315372177, 4.264859383228332, 4.4948032959582696, 5.203189081056577, 5.137983938553698, 6.15962099267428, 6.170044709122548, 5.946953651472402, 6.377906682316425, 6.322222159395355, 5.522155474101607, 5.526603953062557, 5.633797805704314, 5.731666881650895, 6.161974624364998, 7.557106226600117, 7.157251868813905, 6.225727427549647, 5.68381958145666, 5.223181968098273, 6.232147257760849, 5.416622626416155, 5.5216562177035495, 5.238976830057652, 6.633914355648906, 7.46725014406443, 5.730763851975036, 5.4325005087540665, 4.6526264451051516, 7.032418494662146, 5.403263161031276, 5.688273827797262, 5.720548762227639, 4.8860469729495435, 6.704774947057036, 3.294102837928159, 5.584867137152107, 4.413084140330854, 5.7599803675906385, 4.1902942927983835, 5.245125465286426, 5.272491374752449, 5.380939664329806, 5.845031209765527, 4.885757176380372, 5.13004419016251, 5.192413895922701, 5.3666558498602255, 5.443458352078572, 3.6353949236383127, 4.86011707599141, 7.5288954549201454, 6.345972973022313, 4.977302786761344, 5.163194630861906, 4.547104579213492, 5.080693778494458, 5.1786598412867, 3.7687357146952802, 4.59942798141897, 4.386772133988073, 4.7268623615154635, 4.509510561227071, 4.7594594320438155, 3.892204720275645, 5.354746273896245, 4.732265611595277, 5.2990089442358395, 4.910345676877415, 5.150963979695769, 5.539489564507636, 6.125873108343695, 6.257046794586613, 6.056790880933612, 6.040873223647745, 6.417857608369681, 5.107116191894908, 4.979168960373839, 6.278330595679815, 7.2993970103404635, 6.60765605900797, 4.861315781967584, 5.545824298158203, 5.491725772370503, 5.067938167268808, 5.852413123926918, 4.942882548269401, 5.956507733937307, 5.6976862784333635, 5.885908615399929, 5.419845469201708, 5.392741638227841, 6.432255389121238, 6.006169592084826, 4.994383861183571, 4.899478109309274, 5.925336320373067, 6.3974948966991745, 5.813020818370316], K Nearest Labels: [0, 0, 1]
Distances: [6.0108866088357855, 5.858435832822598, 4.430986725859413, 6.495545469534751, 4.992690189766511, 6.551435053000788, 5.822573990691805, 6.412049141911432, 6.105239659412693, 5.4567606797553845, 5.970361461002457, 6.138407252410144, 5.6775748253449505, 6.6506682616321715, 6.90235026550135, 6.549819190397837, 6.344251878272372, 6.196515967609221, 7.372454665973507, 4.92267372938541, 5.708420128103368, 3.5504958118495433, 5.081071381121221, 4.8317084436284885, 4.621160383186817, 6.2108359054227575, 5.31359645650569

3, 5.651435220247825, 5.518935946519139, 5.13371347112081, 5.62286361073989
8, 5.978790127376375, 5.425686921817257, 7.268707144940976, 5.5225457735911
92, 4.455907863799032, 5.804151195697823, 5.384390286686945, 5.624351951256
527, 5.444870744553338, 5.011233001002068, 4.319668157146446, 5.34161032787
1859, 3.809361242116995, 4.442495190150538, 5.354795463193353, 4.8924885404
96339, 5.040070174138661, 5.149793117083393, 6.14751307589424, 5.4619517427
85743, 5.4736658308469535, 6.210260216509786, 6.4051574142702545, 5.6729567
50238572, 5.078826512962144, 5.664167034986069, 5.559533898700322, 5.782580
927722582, 8.351777404464586, 7.902389584190579, 7.156703868355207, 6.58809
84592788225, 4.481535284097911, 6.465499864626073, 4.875129643534973, 5.160
0277849208185, 5.341770042710158, 7.500282412580659, 7.232526141050301, 6.2
00623218107492, 5.098397428322781, 5.349801925536464, 6.67621369035901, 4.6
14376238692475, 6.086144709925212, 6.049806003458312, 5.651355921948955, 6.
44818065225382, 3.7256288042814742, 5.329564811745928, 4.213160267270873,
5.575508111388806, 5.507841592105205, 3.8810207370787864, 5.16675151516696
4, 5.5379749775153675, 5.560121662704892, 4.910562577660941, 5.006755912590
354, 5.408853023058756, 5.400874329103688, 5.965531676140621, 3.26005538637
71946, 4.371975873227479, 7.0541878871499, 6.183722140269042, 4.75412056106
0149, 4.438276717669369, 4.063748981416607, 5.371633732277164, 5.5820674004
93083, 3.8353107810574554, 4.858649527401494, 4.496884999333706, 5.38790191
0556638, 4.503298838016712, 5.219162409437653, 5.846547342972498, 6.3193707
70879274, 6.1798024383373225, 7.2844516331614, 6.359419671926125, 6.3103593
41046467, 6.758585696897157, 6.996065733585453, 6.861848619765993, 6.383439
827402182, 6.991709987722262, 7.096583534787481, 6.69795705133479, 6.356803
982076362, 7.112025678018145, 7.427241361407003, 6.730287334985942, 5.99831
4971613159, 6.8963976757503165, 6.615737982458562, 6.353348113298191, 7.053
899838437476, 6.6875811181857925, 6.942107595223884, 6.7473325960974755, 6.
592737589040953, 6.4572777435935835, 6.418475312983576, 7.43967645659004,
7.050785904102189, 6.854369595198069, 6.178391727286864, 7.222844007667576,
7.295906147411421, 7.107181411629485], K Nearest Labels: [1, 0, 1]
Distances: [5.549856586588765, 4.2964541011958755, 4.802335491230425, 6.330
806967293592, 4.192596177462979, 5.776330804601973, 5.046242987086677, 5.17
7205852363649, 5.0736848628352655, 4.505781950981874, 5.692237392548638, 4.
693050540675644, 4.588091552895326, 6.295349228481609, 6.970688422150151,
5.424517013064513, 5.616045204935959, 4.9500379683566775, 6.59988006884290
7, 4.558647317928183, 5.0068243733433375, 3.6631375447635404, 3.94225395570
0889, 3.2873449317514383, 3.395623078057518, 5.514612961240389, 3.990744445
1007232, 3.8604378376994037, 4.505497973775389, 4.10738590804635, 5.1888406
60134059, 5.22977961547624, 4.002657698557685, 5.725424322853066, 4.1875623
90239598, 3.384161765249069, 4.361710223595811, 3.7490502814496613, 3.62543
1557164128, 5.711458365607489, 4.388557571434883, 3.3736138251664722, 4.850
453868610991, 3.1153110053491138, 3.3998356418177016, 4.604873367235028, 4.
911338509117903, 4.415224493925851, 4.5754785332622925, 5.33871777960965,
5.5272093720347115, 5.073386315383649, 5.509542076223905, 5.34897931719654
4, 4.5106153623325556, 4.860595742563616, 4.918761431713814, 4.619277693548
805, 5.321667082975861, 5.805499005714354, 4.908187997290459, 4.17421000317
4056, 3.7645922887650087, 3.158125393651547, 4.005767393676567, 3.430131026
031646, 3.9917684772919446, 2.532703066692748, 4.564919526994125, 6.4574127
809944395, 4.150237523900593, 4.218055728031811, 2.8593928126426955, 6.1279
3288777313, 3.3607085441254214, 3.6671260034620654, 3.7930407181064445, 3.3
102557475451135, 5.504634903188839, 2.999548592364647, 2.818247008520718,
2.4715936186271903, 3.289877632104844, 3.98817330944937, 3.219981700613288,
2.740237066934854, 3.231447558496443, 3.601834559159423, 2.472543009625217
4, 2.4249304074271767, 3.1220203690677106, 3.1078015390393947, 3.5774645980
374316, 2.3460732648002023, 2.7082525180838304, 6.906050234683454, 5.299317
108058367, 2.7378469841800794, 3.143051204901453, 3.936645917168313, 3.2803
56925957015, 3.0894413998471233, 1.6196569614267253, 2.0708077437186674, 1.
9456298123614506, 3.0013602754953763, 2.077447371062397, 2.907956757637462,
4.464325702001579, 5.146117584680493, 4.62668527191578, 5.95508109194401,
5.070453459739967, 4.844437405169978, 5.616997215492897, 6.051481100394588
5, 5.788366834116265, 5.321915539530511, 5.861351855939127, 4.9526272377987
395, 5.809871232149152, 5.389733293437454, 5.485153687316303, 6.98347444082
395, 5.905895874958942, 4.452645243252852, 4.942402104718456, 4.63475000766
5437, 4.611172603651758, 5.329690837216132, 5.205131677263887, 5.9167670452

970365, 5.1723807174067415, 5.398544903572032, 5.897482664268334, 4.3657550020677975, 5.3425750236432075, 5.524633821525401, 5.926790522450363, 5.041618375478813, 6.209838656451532, 5.79255731797201, 6.099286853602044], K Nearest Labels: [1, 1, 1]
Distances: [5.354630283829668, 4.679090024988539, 4.367436512397291, 5.857185569180373, 3.948548625012883, 5.416581257764871, 4.972379180664597, 5.275182371402879, 4.8557288557116, 4.300383177017343, 5.575609444498641, 4.757499269972419, 4.539977467961993, 5.887988964559211, 6.584666913973666, 5.342250918485823, 5.170804490074518, 4.50783250857189, 6.273072033260574, 4.589949767049634, 4.862388024810117, 3.9374406655407777, 4.220571102721812, 3.684475213443218, 3.616216498076877, 5.2582269339645205, 3.870696584612337, 4.154751018472433, 4.407801456193669, 4.175163777330307, 4.717337369538034, 5.004170597343165, 4.023504203763852, 5.633874984335142, 4.172710104441509, 3.2898306426327406, 4.264600238403775, 3.8186763599916693, 4.012773912015534, 5.639568318739311, 3.953731490893362, 3.7754968380504828, 4.601274086637996, 3.2953498097053613, 3.2597383682711527, 4.7260022063869505, 4.874564732822128, 4.098807819150914, 4.128132237375184, 4.989347826954654, 5.316135533968473, 4.9567483989594665, 5.163035045260699, 5.147914886561657, 4.402059544374756, 4.426084508210719, 4.571844524621278, 4.395804265625327, 4.789771103370376, 6.537995483134343, 5.372366571076109, 4.379980055461855, 4.347581318215511, 3.2475180839316233, 4.563773019950657, 3.194276177148273, 7.4013521369205709, 3.497844795436319, 4.749790246932661, 6.820781867978852, 4.392810253651561, 4.174302373390854, 3.217785503737282, 6.133994264276592, 3.6098508966750154, 4.466151166946781, 4.228796311823597, 4.106415021997304, 5.445319288919431, 3.4699244901012616, 3.7383965883877246, 2.991873276847625, 3.8648430561261997, 3.999812846983699, 2.9487734956150944, 3.4042303824236324, 3.7795744090288226, 4.316582778155187, 3.0990161211302727, 3.2126698522756074, 3.5527547705487197, 3.4602757070250365, 3.6556130927645265, 3.1888440567215706, 3.4700949824352034, 6.748485281603238, 5.50274196816001, 3.3346404214998735, 2.891938348290012, 4.220025302189558, 4.2608460456420145, 3.854867235316669, 2.2206057566467026, 2.8767338742225324, 2.9862546820920564, 3.4567558564599485, 2.825697109956167, 2.978572285322947, 4.872651595649159, 5.3334591875487165, 4.734408860718612, 6.1744729816253505, 5.112393900880069, 4.512108563350988, 5.355042647200387, 5.620853603633633, 5.311550764747127, 4.650093221278234, 5.376299070730918, 4.638700928342838, 5.688266433909175, 5.043144120084371, 5.278848432807595, 5.927733571977543, 4.933914386325853, 4.325035889031929, 5.087420765468696, 4.793854711894792, 4.779915162962528, 5.1244220562654865, 5.319790952636695, 5.620772397759465, 5.159902659097891, 4.9792665421187765, 5.724407966544039, 4.677816033500467, 5.222095224529161, 5.091233109093976, 5.97294601151135, 4.849006774506628, 6.031957572923337, 5.423266984057281, 5.652130317364886], K Nearest Labels: [1, 1, 1]
Distances: [7.060519235579504, 7.0715983930194755, 5.537093462249974, 7.744156929085945, 4.151675544735145, 7.057200061597816, 6.743023975249219, 6.3075425466780795, 7.108846769983083, 6.717181745123522, 7.037975125196854, 6.258897801794901, 6.1618247196218245, 7.666922258469393, 8.374047750964863, 6.236158928048687, 5.92916853475497, 5.355513867536626, 7.609270939174315, 6.465128842448511, 6.904868307485753, 4.9990936871059946, 6.09126599436038, 5.175832579463205, 4.866916030336218, 3.9900061247385707, 5.598177824420832, 5.934146697840454, 5.115252366042422, 6.349555211346189, 5.352474216798461, 6.467599646512297, 5.1873026815595695, 5.797287958363735, 5.035558925446547, 5.054495229493813, 5.308828362538646, 4.938009530343321, 5.9372682475614145, 7.532784589650906, 6.152529903441297, 5.648719363245407, 6.906871010979568, 5.271766187103581, 5.890629396407238, 6.118350190778338, 6.868698281127406, 6.820951767598577, 5.662393206954036, 6.714886936769645, 7.687509283129767, 6.283061240977659, 7.29303119869878, 6.040315976950651, 6.520271442140587, 5.8990033304226275, 6.7547367591481615, 5.733253703348115, 6.874468071792125, 8.539180258863295, 5.4226577385677786, 5.449321125167566, 5.95039303742218, 5.672771674235984, 4.248206966748719, 4.152227374119245, 7.029024979938969, 5.5023203333558826, 5.380404347108667, 7.958147719251393, 4.617162842269914, 4.832405034051598, 4.354978522936777, 5.836687705124088, 5.424674112628213, 5.640462676091564, 6.519861913420743, 4.607978622224115, 6.707947943111557, 3.688142099107925, 5.281669158278371, 4.8736789238192255, 3.2339527389801668, 3.6891700318955425, 4.765079786631476, 4.91542912840

3472, 3.33994322097315, 2.928711109365566, 2.8721786765807193, 3.5701903295890234, 3.8148117144334406, 3.0032540824633807, 3.708304574545398, 5.003127695460574, 5.327116259082618, 7.2577727896652355, 5.338663783456111, 5.582154877250577, 5.716874815594247, 5.130653849851051, 6.059595880615985, 5.4178464683979515, 3.78809615904446, 4.752113218038196, 4.827234184313304, 3.3853521828018214, 4.449850105318019, 3.3006359955549747, 5.0906409032546796, 6.121987284735657, 5.1700710944902175, 6.600113832668867, 5.230848345720682, 5.089626526253514, 5.8537129696509265, 5.8688157461526975, 6.063697817942831, 4.710903792136618, 5.9301643768250925, 5.292204970866787, 5.471447082549395, 5.76736145841184, 3.798206065006447, 6.243772019821044, 5.437790822699554, 4.7683804795679885, 4.902741967247549, 3.8897641236455462, 5.281593853011514, 5.6284880620727575, 5.215657531084034, 5.337589771829519, 5.782843563879598, 4.627728270105823, 5.429922747447057, 5.115670260570284, 5.878930041643055, 5.798695631953034, 5.981967004100114, 4.7446484689671005, 6.450777810514194, 5.657490810645208, 5.193867016945064], K Nearest Labels:

[1, 1, 1]

Distances: [5.782440991201539, 5.328651369639992, 4.703817882308042, 6.711573687318612, 3.9595488352843957, 6.08246036055479, 5.399130347191158, 5.510771843228636, 5.407789509878831, 5.088965069827304, 5.836779397075634, 4.886658151556353, 4.916219812072072, 6.445937176195006, 7.2177812129310075, 5.672567787185735, 5.4179468434648745, 4.865193052589819, 6.880340978871675, 5.128795501740975, 5.351554970733339, 3.9971221458111192, 4.516656888633333, 3.8409306926341142, 3.5906693005349535, 4.862860996438425, 4.549709289863842, 4.366366072525647, 4.513065121987009, 4.553465265865534, 4.798522144044911, 5.407679665390871, 4.002632437963547, 5.71092915448816, 4.173102887718098, 3.578432205343636, 4.61072848146172, 3.9155492761493105, 4.215828118880395, 6.234307307196994, 4.707703673434632, 4.07966907178449, 5.4924886874343395, 3.807904310877227, 4.024554044477563, 5.1483261607781365, 5.421970094336587, 4.952014844625545, 4.460577898895417, 5.612460937078387, 5.940116580914286, 5.137737383110915, 6.140774867183912, 5.530689412429762, 4.96100829244062, 4.740313657678617, 5.274955301540997, 4.96846308735688, 5.651247428871325, 6.606007632537842, 5.111682456100572, 4.4898046385815755, 4.18380445416946, 3.726166614736493, 3.848837920465935, 3.165509219333703, 4.670293577525598, 3.445157400732941, 4.769848806733361, 6.403472358493653, 3.675643731974956, 3.7468729411566604, 2.6270524567365583, 5.638360071308431, 3.8165789532573697, 4.123709953839022, 4.241389613656086, 3.7034420371087973, 5.2784637754512085, 2.928085400377608, 3.309428255590099, 2.878536041290735, 2.7081686857133116, 3.561627679124816, 3.0893686597017487, 3.019472430081915, 2.523012374495207, 3.0697291193079677, 2.3947226953633027, 2.303359699007126, 2.8485599230142675, 2.4284949927585844, 2.9111622733111844, 2.9318077819006776, 3.6084037849746404, 6.438906455468095, 4.881542219510578, 3.393086288789654, 3.776811725118947, 3.913525320545531, 4.064075309112432, 3.3031843597466177, 2.29185215286457, 2.657226723758895, 2.653836716648244, 2.851039862167712, 2.435050172433517, 2.076398900553253, 4.609811453964345, 5.425241128035038, 4.427060039732595, 5.96697339174581, 5.194306367328916, 4.721661673493444, 5.496118366626715, 5.5935081185995426, 5.608043190195848, 4.580122895677246, 5.720663454611678, 4.670466903018471, 5.6373723553451764, 5.305310501374097, 4.957256984033408, 6.348275666312473, 5.431719574166809, 4.62584726458607, 4.823534918765958, 4.357893232512694, 4.6604934087965635, 5.1337051176363, 4.954956875314119, 5.561198483135354, 5.343933870256749, 4.756928701174291, 5.660614392396521, 4.517163973533736, 5.471909049065352, 5.343855682440318, 5.983510340252095, 4.684467402932626, 6.188799509733135, 5.55040904678907, 5.677773582516674], K Nearest Labels: [1, 1, 1]

Distances: [6.57777383329106, 5.4240354279065235, 5.251204437537145, 7.1259570172102755, 4.48493117312835, 6.463603571290417, 5.66492420515253, 5.698854461702361, 5.974579241184201, 5.782264801720572, 6.355086426730205, 5.278137910396947, 5.177609578780878, 7.003919210772489, 7.645169346994768, 5.955762036486324, 5.998212004419183, 5.603222362272629, 7.260656006793481, 5.1642932240400645, 6.340033083902637, 3.6802209917466833, 5.104104521998312, 4.303316032909221, 4.410200190184995, 5.657102444736051, 4.6805553583279815, 4.488081602735172, 5.254177992932895, 5.15822771864775, 5.735797872944214, 5.903888418066638, 4.7090023903963, 6.283098329003752, 4.662173636381543, 4.518581404390468, 4.953045956711681, 4.2369921528512675, 4.673360018883501, 6.161227672830093, 5.6591589874783566, 3.3655136851357335, 5.870181810

506506, 3.2191050757039545, 4.835680652985337, 4.607945498220539, 5.4470470
98978585, 5.7075775692502875, 5.187151085976231, 6.2140674762339145, 6.4706
125183333105, 5.7471181220179135, 6.60077858949653, 5.799325657077664, 5.53
60474001506015, 5.649548224446195, 6.0280637764301925, 5.176820053626828,
6.260859161241706, 6.5655048824071365, 5.0822487195573816, 4.56613246079620
35, 4.7605435675845795, 5.073068443806742, 4.490031800697072, 4.26736274178
2241, 5.806585530682097, 4.225343346422091, 4.99928969344349, 7.43568887108
66516, 3.8375946794769353, 5.252147410670689, 3.5693666145659537, 6.9455787
01818042, 4.813931707922611, 4.268985270411439, 5.168426500033936, 3.183718
8595692103, 6.328260519749845, 3.170583693058089, 4.673014621102168, 3.7228
45102456556, 3.754935170871347, 2.5772273579696012, 4.3443746143453925, 4.3
12589473536025, 3.5720479830093543, 3.941721039058991, 2.404927930322196,
3.234049642402407, 3.09770036371836, 3.1842039845485246, 3.414723432261704
6, 3.4764582136050213, 4.22061667260731, 7.589794284415726, 5.2150479001296
96, 4.369641237968652, 5.047922502621551, 4.5785684785021745, 4.50502665271
851, 3.957638421253584, 2.6991332926327876, 3.30406064445697, 3.49066418395
3862, 3.0708648522214554, 3.1373130808954905, 2.892079552764391, 2.84539227
42441113, 4.241286847617025, 3.3454633900822177, 4.251992387970375, 3.31560
66642392403, 3.8191710140827717, 4.6626550414569286, 5.4154966333220145, 5.
3288605957047315, 5.0478831803403645, 5.014858187684912, 4.749803118606547,
4.008266488605895, 4.222909317255669, 4.208306331786124, 6.869588755617877,
5.687803452227462, 3.166949021132382, 4.0092450219265645, 3.51491376706598
5, 3.50432294496898, 4.570920026217562, 3.6667479107636587, 4.9398074850307
18, 4.215489844573006, 4.594310235345756, 4.668591495371939, 3.341071283650
0887, 4.694818576584354, 4.866941577557889, 4.087288991214859, 3.6645261675
346332, 5.179664792532314, 5.160597852376746, 4.8142728040077545], K Neares
t Labels: [1, 1, 1]

Distances: [5.910258828249061, 5.076441343803015, 6.030970488436478, 6.9292
58780330443, 4.922483355111197, 5.985880520179244, 5.727738174752933, 5.128
232742156285, 5.535178681196253, 5.608530133325092, 6.3525744556607195, 4.7
442970061493455, 5.347747204802347, 7.244567868006884, 7.495707105540519,
5.399317075925098, 5.353349496518064, 5.204102970173849, 6.867935782493066,
4.852728885296925, 5.548303406057301, 5.168824874134031, 5.488080653681745,
4.8356511892042855, 5.277656275412614, 6.220880579151882, 5.18482723792131
9, 4.300459665063559, 5.7056160189927745, 5.271079980366713, 6.002249026634
017, 5.515535398140801, 4.876843131673971, 5.648784624371431, 4.17693320014
096, 5.025743557961188, 4.379451224862465, 4.035516434690204, 4.22850726834
2868, 5.898747994802489, 5.471697802334506, 4.949018026770698, 5.8216733611
686475, 4.596090564814165, 4.93593713149233, 5.264255040718802, 6.261909853
9350695, 5.576437844713442, 5.229091744171312, 5.930822093303844, 6.3752350
50431529, 5.914066318044567, 6.447740808317089, 5.473921590943392, 4.367171
906972112, 5.1867141990523, 5.32955642176118, 5.271587512740148, 5.70265934
3335692, 5.366643098311743, 4.603174788564359, 3.660352036294893, 4.0150443
02433761, 5.71824992859564, 4.397746522456068, 4.405679919707388, 6.3807595
0009098, 5.131566099434767, 3.8398172875535788, 5.409768250942375, 2.783748
3505989953, 6.251094782521524, 4.080805360732761, 6.829803254830262, 4.9604
772771706225, 3.935601196910373, 4.575277218029908, 3.422535450619376, 4.52
6800505660377, 5.758063738065661, 5.418318864321516, 4.687995773029959, 5.3
420652279062555, 5.20237910349678, 4.639576270995298, 4.228930897130813, 4.
632426815272228, 5.756571697762709, 4.782359280483535, 5.668806932144397,
4.680526738956269, 4.6615487507608515, 4.7129513967260594, 5.26590915151524
6, 4.758360799000963, 6.133863466462649, 3.3120795209093474, 5.016469692919
4355, 5.707731772213784, 6.737445443761787, 4.832054365428106, 3.9458829447
382406, 4.453035298312419, 4.526387906037545, 4.96645431182758, 5.646760592
288332, 4.710620231278203, 4.332915709126377, 4.799024772062735, 3.48578662
9236191, 3.5378700562495116, 5.200704905372183, 5.020182265937592, 4.252399
70489445, 3.7581182369477153, 3.5434277748073852, 3.778645080662111, 3.6292
43810942674, 5.3097205165266885, 3.7032858419320367, 5.747152668531718, 5.0
25278824437389, 5.481076697317797, 7.033657956082839, 6.022022335074268, 4.
745306740405954, 3.7840995591798583, 4.353434315634942, 2.894417758977553,
4.289433448440803, 4.989334056575052, 4.636836665390001, 4.413769099517085
5, 4.125479421803569, 4.827885887746754, 3.299060451784104, 4.5360263428858
86, 4.4496963258499544, 5.512234749577935, 4.1060348363600125, 4.4367003803
49804, 3.9840746197561123, 5.74944400661723], K Nearest Labels: [1, 2, 2]

Distances: [6.435687066244419, 5.442980368783281, 5.990553304135259, 7.206064695621493, 4.866698025722461, 6.364525331730361, 5.817301436531433, 5.416566641934849, 5.795539447619318, 5.78474285993958, 6.560504320138068, 4.904854327656285, 5.363728867494446, 7.435981744982656, 7.801909702084772, 5.604937150219391, 5.619255766978257, 5.441076579426204, 7.126888433246311, 4.924529799260734, 6.107837156304912, 4.6231499213450995, 5.628541911807237, 4.861092875038706, 5.157714831909503, 6.206437491573479, 5.17976134365824, 4.476510559279504, 5.7427497779023176, 5.423823592047736, 6.068626734040535, 5.761460329981698, 5.069355060189835, 6.128177736718146, 4.394935514970144, 4.988675758325607, 4.6596171883889355, 4.153997253474484, 4.594346864362707, 6.020294837596297, 5.860784518055068, 4.290853902680844, 5.9963715916638956, 4.0492119602391465, 5.2488622865979435, 4.8620990507872985, 6.126351480358496, 5.824242705948252, 5.278197712848181, 6.087793591445978, 6.610488829225649, 5.963663668858377, 6.811127981498937, 5.746365846731902, 4.894622413743496, 5.513506429424685, 5.776072722490073, 5.361908555900559, 6.0857711583619425, 5.8390745305764815, 4.8068914128672775, 3.6575761697002758, 4.135316903943674, 5.819087255642598, 4.427770101871357, 4.555802306416786, 6.476235717013179, 4.830077902089487, 4.337670632758859, 6.585204282713159, 2.8427815860071486, 5.956890248126402, 3.4617158451371486, 7.200226110931152, 5.3384122087574335, 3.949801479453735, 4.72994609724214, 3.215846895632913, 5.675579744684203, 5.176168789371899, 5.475114399370801, 4.475746613444469, 4.938877471615007, 3.911063523021922, 4.822491396325514, 4.513954499825894, 4.318562184425581, 5.266598601964942, 4.182657818891513, 5.151172165040251, 4.212798921379669, 4.106296617595271, 4.148378573805038, 4.904776183689364, 4.809542111964827, 7.233272213299252, 3.877185854957905, 5.1022285820319295, 5.889151834373677, 6.458147035153679, 4.943865141830212, 3.8981649333679997, 4.038656606731494, 4.399413085827052, 4.714292637890758, 4.947010421761515, 4.2501118334643095, 3.6381631274928763, 3.345908003077838, 2.5181980077355735, 2.589296477901337, 3.406251185158414, 3.2204515459177, 2.920335041671646, 2.4344944021282084, 2.7519009958318605, 2.8835765828935167, 3.2941821579065382, 4.427127587262562, 3.4903114501986017, 4.282364846530091, 3.5860779264827976, 4.424277154524212, 6.509007055924689, 5.368915403306709, 3.3383343068088123, 2.905241027086805, 3.3680593166256654, 1.712131392668472, 2.9235276832371726, 3.347036961546018, 3.5096962042534408, 2.9240197859116472, 3.1495433191076194, 3.456227633703263, 1.9745756521396793, 3.3121398003525786, 3.3818506463664777, 3.8781912429691467, 2.7365539401731493, 3.5350722684300537, 3.618882385416495, 4.393213404698921], K Nearest Label s: [2, 2, 2]

Distances: [7.055492585491855, 6.273914929524032, 6.380560479509717, 7.668357126416078, 5.2875534497158485, 6.9245329040237795, 6.372852912741413, 5.9867122247777855, 6.422596694427065, 6.276720651048264, 7.031090214945037, 5.377170109272248, 5.846929515892102, 8.05218464957163, 8.415796043794842, 6.147608647977732, 6.001311979258938, 5.778255626158038, 7.569841901967129, 5.814260500097209, 6.768352578419471, 5.285082408766099, 6.175855976639649, 5.2966278353945855, 5.49345492021096, 6.289064241023009, 5.6530903113496125, 4.947020812058025, 6.166918297925148, 5.94940437123662, 6.207591866065356, 6.115498926099998, 5.586223782596406, 6.528851617930142, 4.869928618874615, 5.299737169086177, 5.33701658956968, 4.628151100780817, 5.226112314886331, 7.003150695381581, 6.429781997825988, 4.863666229900379, 6.60818422531535, 4.830340641987228, 5.76359514652602, 5.517981452122565, 6.826524719385343, 6.356046243576817, 5.68563775534611, 6.5236210400113, 7.22964729007928, 6.401754131999981, 7.435505990207953, 6.255624565543538, 5.529506488403322, 5.857961085916901, 6.369100107175443, 5.882337895582273, 6.562040839766613, 6.442435437787749, 5.168951459014047, 4.020666552576204, 4.564489181306303, 6.172603560175909, 4.828499133259943, 4.932398522380385, 6.894139428447485, 4.973369298918027, 4.726272298656624, 7.189355852970894, 2.887260601371547, 6.011117516519165, 3.291457965944469, 7.20199106723096, 5.575953892267483, 4.555129262143602, 5.172127328243224, 3.8849983180290595, 6.270965925118434, 5.5324088546965084, 5.764132558630252, 4.84932722205931, 4.735488394421325, 3.8857999583054634, 5.0720607391388395, 4.949708272105869, 4.306859056520409, 5.062823269077693, 4.1438755101550475, 4.9104951685582945, 4.37588007084616, 3.9299520719842636, 3.981135685091528, 5.466439370143195, 5.387995476300871, 7.720223547132133, 4.3022270910619556, 5.612292818486474, 6.207775246776605, 6.946933653068371, 5.474249963724597, 4.155639368678065, 4.316

621879706708, 4.599492472055225, 4.874761791560545, 4.897340078491737, 4.423946138379344, 3.368454344586839, 3.9228385212240293, 3.182332544355828, 2.773817496943936, 3.666630922823962, 3.275536404991104, 2.826921588216728, 2.72769883782696, 2.7912794730722883, 2.8418707709699143, 2.9699562114586384, 4.547148787353731, 3.2483057938829223, 4.3514000783867735, 3.816901105711529, 3.8127922236275515, 6.188220881617371, 5.077394274420451, 3.389993044895884, 3.3507069900353783, 3.4402587611804445, 2.4641488163168788, 2.675612381259224, 3.345753607427214, 3.595288099083049, 3.066522531800188, 2.7968639577646157, 3.5792816122343747, 2.3097769175562552, 3.14344111619581, 3.3496861394639983, 4.237234497843354, 2.774957907199878, 3.9270242570000966, 3.734282967816205, 4.214566811012192], K Nearest Labels: [2, 2, 2]
Distances: [6.548423996747548, 5.621149928720686, 5.979378222055081, 7.109789455140111, 4.875324690898964, 6.40288064377485, 6.035175866367483, 5.49411994639622, 5.970255872413799, 5.88014000242298, 6.4417276931882075, 5.0749336717068445, 5.479416324873595, 7.646702246484444, 7.848672852880015, 5.632627802796107, 5.630055840647557, 5.501744202828013, 7.1166827082815916, 4.88952966743795, 6.161279421575747, 4.553115579245457, 5.7376321039942715, 4.965232948552912, 5.251957482168093, 6.243898979926192, 5.340156418379696, 4.53512780105135, 5.815823152380481, 5.55948901876518, 5.971761182011272, 5.659465023688688, 5.268328253305019, 6.222240017038468, 4.48306300845525, 4.997235395083192, 4.8943147431855625, 4.230071244955317, 4.706521394005519, 5.967793340307391, 5.958107341913121, 4.154452488851513, 6.002451323519088, 4.000901237914353, 5.2625225279186365, 4.7354519699362445, 6.0201133404076606, 5.843898604247183, 5.332965055957117, 6.161050447419094, 6.650988591910522, 6.045710174959781, 6.80202512546356, 5.8121155805198885, 4.961426612789321, 5.382095692364856, 5.811444081873168, 5.3816670808570715, 6.013484520267299, 6.084822044748475, 5.2707038441873495, 4.211614375251367, 4.389391231088377, 5.665246651093355, 4.727475356132875, 4.75401289812648, 6.592838155264982, 5.025067207881652, 4.74296003144289, 6.520903719251879, 3.2854527067948047, 5.85028020737425, 3.644827619799011, 6.796981733340273, 5.019264548420786, 4.224973843850543, 5.0052272813366265, 3.4936961701618414, 5.870364066572725, 5.000206802052756, 5.572200147695646, 4.580722868976966, 5.076569364397113, 4.281559668885454, 5.029274222332821, 4.742946822152312, 4.493644610044224, 5.317396898182072, 4.429365511914806, 5.301813269734499, 4.688136958856566, 4.580538624588469, 4.749214400577823, 4.884501038310775, 4.607251343215402, 7.133919973440493, 3.738987078001481, 5.209982236457617, 5.774744679502496, 6.4316204512555, 4.898700021834684, 4.243713488762841, 4.101998338855344, 4.45589934163476, 4.828991269917839, 5.4176388687926345, 4.626189450689556, 4.161189883550758, 3.4564474227544184, 2.7015258793035466, 2.869113428683517, 3.7929853914238065, 3.5129483349682658, 3.320002506851855, 2.7323299668203234, 2.8785490287968316, 3.2056496146091766, 3.298356781821031, 4.946598090261708, 4.166919846974114, 4.500931868597752, 4.034650513761566, 4.645075148676487, 6.767327168158241, 5.717861645203091, 3.5411695817823543, 3.3361223177229364, 3.84120894451971, 2.3610479209356945, 3.522369443959665, 3.76635569102939, 3.740121637695257, 3.420628970633407, 3.511537125777149, 3.273679132625998, 2.676753272329495, 4.0425837380838106, 4.015058081529355, 4.08697088911572, 2.90331538639561, 3.764141154356727, 4.124160402523066, 4.674037453336736], K Nearest Labels: [2, 2, 2]
Distances: [6.849643230394973, 5.467187019890355, 6.114888182665796, 7.388001293731049, 5.462257322605225, 6.275576348596104, 5.799125371694337, 6.102556639474261, 5.730501618950372, 5.933638562575615, 6.897399128191475, 5.182537214044586, 5.250816541503026, 6.645623762497625, 7.503319881834418, 5.999897501372603, 6.171179233973314, 5.548799068342446, 7.091345066050658, 6.256967458981864, 6.656718264821314, 5.701091542620148, 5.901912300922941, 5.117908690377343, 5.572418745643678, 6.596645111810749, 5.0190916263142755, 4.574602163830839, 5.920647035340859, 5.443115812137907, 6.257814831186277, 6.168584713447259, 4.7682691872071885, 6.067995995653551, 5.118004622823057, 5.451343230956731, 5.003680197628257, 4.467405684985227, 4.659046798516935, 7.21632491883466, 5.830035988761381, 5.105272364611314, 6.548406748155854, 4.912252404322528, 5.295123832787884, 5.958622904196102, 6.544836899856327, 6.0403394200504925, 5.40557083278502, 6.134483533653089, 6.523586379093253, 6.266720159038762, 6.626339189270465, 5.734500767447881, 5.706962925664647, 6.168894482137456, 6.123452486448114, 5.51129175986848, 6.461248544012242, 5.308081966390235, 3.1300015610697276, 2.3628565356905953, 4.2545

23957825013, 5.771325886562979, 4.333642163349005, 4.197191534986846, 5.822907727886441, 4.699461266760661, 3.2770731719941963, 7.460525426194241, 3.2611068204811726, 6.54720459102086, 4.404461097340576, 8.224527182593494, 5.73620885919779, 3.9792652992569804, 4.658256682185064, 3.7397368328831466, 5.612986447549729, 5.4634284816993315, 5.158084110336013, 4.6710086765852195, 4.456267632227025, 3.3142169883034214, 4.972812258248401, 4.560714877396826, 4.008020949920569, 5.282053882064573, 3.4079889046295246, 4.2885268312969975, 2.8680586716557923, 3.219547083988359, 2.4804524401539987, 5.289572736616603, 5.418560076583251, 7.67373006331728, 6.000013407320162, 4.691031108185667, 5.605701113301962, 5.86359407903214, 5.114885578399285, 4.000074508772919, 4.48441209746302, 3.679063014922917, 4.518068891953466, 3.8358248858621464, 3.8530313276988544, 3.070049926092169, 4.074379075250968, 4.389051263871324, 3.3796228433672253, 4.770025932225228, 3.9126819087713756, 3.1757187758843313, 4.62139316953012, 5.57266971363361, 4.9670755182445125, 4.960980756520011, 3.4654165548086775, 2.2311186372173735, 4.185458549038615, 3.8426141845891735, 3.8898984078277783, 5.875755765780909, 4.368946519626535, 3.1190419268785727, 3.4519271548975743, 3.2540232107773184, 3.2749739415996215, 3.6335353770878056, 3.8424269004297913, 4.649442522312764, 3.500461540075343, 4.252028798253949, 5.781378577692352, 3.0053909691016973, 3.044720752588617, 3.5535275918491602, 4.676062677515393, 3.8332913632176395, 4.727561230321529, 3.6473752535223856, 4.70097877193051], K Nearest Labels: [2, 1, 1]

Distances: [6.987926228060835, 5.797138493113288, 6.431050258695905, 7.570422536221123, 5.552795703881626, 6.475111781627834, 6.090286132122473, 6.051071284649299, 6.109976355756162, 6.25095055428886, 7.108949888929162, 5.474992184600471, 5.631822922692187, 7.158774239986719, 7.846557018529333, 6.080665026298082, 6.228887346348168, 5.665047902750227, 7.204299700805554, 6.275541497160705, 6.838375096117486, 5.708153653634487, 6.194972220095864, 5.520056144098425, 5.9256376740072065, 6.689802540177556, 5.4023982635370595, 4.911505913622784, 6.194540685197239, 5.835700128646173, 6.6147654413678465, 6.3406244301128725, 5.099719881474608, 6.044886877521235, 5.316000619601641, 5.72663140605066, 5.3158681082814345, 4.863469031709918, 5.072353158087243, 7.132351688216959, 6.102322704602194, 5.020588744938886, 6.881077130499509, 4.8045886587834925, 5.631623940325833, 5.6616837494921235, 6.652570731085017, 6.383001886120829, 5.658760498802571, 6.193235596249352, 6.974146184455474, 6.632641389646627, 6.911573119589825, 5.846260463790836, 5.807466376040171, 6.4027371912569375, 6.326743086225837, 5.773487291592517, 6.792708959302539, 5.801674278667652, 3.4617611726618494, 2.437789637678412, 4.548413880698382, 6.489574228812183, 4.669511570118121, 4.843325901611837, 6.509032190180518, 5.1268555582278905, 3.6156270965120125, 7.5983912707035515, 3.4044105551740316, 7.056077313755113, 4.62862704523943, 8.306674900005902, 6.349181778526439, 4.231319066106669, 5.1958523608138645, 3.54914097151241, 5.937797512190698, 5.528024547147083, 5.826736840505336, 5.139236736164533, 5.101312142345534, 2.8570186687563965, 5.749790471247126, 5.149005636914123, 4.472274820387898, 5.609101595690998, 3.8366722474269226, 4.990428262626252, 3.559496466092904, 3.6719583302015253, 3.080192395152292, 5.751956789321211, 5.922161311737838, 7.83245710999676, 6.031945888728171, 5.423887486130306, 6.3087703931119306, 6.355209506433503, 5.377001788509152, 4.458797286131355, 4.754488118891044, 4.366772764053999, 4.943770121273843, 3.8467619048172983, 4.334852323224165, 3.4229523102963246, 3.438132627370557, 3.48786289135145, 2.7850022102127014, 4.012536550504765, 2.9439027175320303, 2.4848241914349396, 3.6069233971682664, 4.932177217140902, 4.33956020516655, 4.894579185492525, 2.6250057147210444, 1.9254777988295986, 3.0795271403146733, 3.1012182156422603, 3.2037298758248425, 5.814196421520083, 4.422005459756203, 2.4659750443267496, 2.757527343408957, 2.441720359883024, 2.509947033602647, 2.849952451151031, 2.8704178983803055, 3.730671848925464, 2.561104189151323, 3.742004216030284, 5.052770010109165, 2.3950807245951298, 2.2165397901051946, 3.030708881499351, 3.523793616262957, 3.046745593148786, 3.525494848001386, 2.713015988009316, 3.938054819352002], K Nearest Labels: [2, 2, 2]

Distances: [7.964892820481436, 6.822338404868073, 6.890935932674493, 8.49391279265815, 5.7029239224376385, 7.524215458037049, 6.960756780751738, 6.661464384161577, 7.238384948966174, 7.418809685384089, 7.7963901484739395, 6.322782911712399, 6.45754729835313, 8.237628081983683, 8.88256829026703, 6.82

9189651381891, 6.865609887597188, 6.577320235000806, 8.252891443065797, 6.593473930835536, 7.879029463824448, 5.522416670573303, 6.903722151557248, 6.044456950221905, 6.303279695639303, 6.61418019929677, 6.104295746160119, 5.721912037620304, 6.677678374020911, 6.80530295292285, 7.115070783860944, 7.1661905363110945, 5.975652395329029, 6.911661034735681, 5.746095214257098, 6.3996714518752995, 5.878519057261658, 5.369168353218052, 6.005518541382111, 7.464505316315482, 7.275554390813298, 5.1624636297962585, 7.528678868451892, 4.9885180808281016, 6.708615092072678, 5.827972651611287, 7.142490253013592, 7.476024803782005, 6.534799791028694, 7.463184644457284, 8.050116999285542, 7.230294836134152, 8.026593895873136, 6.668085565915565, 6.815833309384801, 7.116102142928228, 7.439163820965922, 6.409383897095742, 7.672110962695912, 6.982165022029183, 4.722652733040261, 4.450658782194585, 5.6708481960683, 7.251738167191463, 5.07617677154578, 5.597996375636587, 7.855647725256039, 6.110252670543927, 4.929829927896242, 8.423611734799737, 3.8955637166039323, 7.178103037035302, 5.0203006536143215, 8.418523595057797, 6.802931299550076, 5.0618000106486285, 6.489896633082484, 3.7587581945899506, 7.126939770072281, 5.319441113400417, 6.5940828591633665, 5.746670862228949, 5.206063227238543, 2.876739201824561, 6.206260922147435, 5.942001086823762, 4.738583118813235, 5.445858660533227, 3.966264726278761, 5.26083327562905, 4.090825426233492, 4.21983570374097, 3.9864416351071816, 5.861137311946492, 6.215356987434158, 8.51045150955761, 5.611238060612488, 6.279340442025824, 7.22895603202197, 6.6273565762975135, 6.170489184262928, 5.257470131132669, 4.90106824683411, 5.1003135751704525, 5.6637189720786045, 4.435404567187735, 5.062415514201757, 4.024283919011156, 2.656814086848259, 3.8044330606602066, 2.7477660503035826, 3.03193234175696, 2.363998069438682, 3.2850439330622088, 3.889714868588349, 4.932763862624656, 4.961550442360782, 5.067855027007043, 4.315672648510254, 4.223915843566975, 2.8942382231455546, 3.6979134085371848, 3.32658421255091, 7.10930894613875, 5.840042888108416, 2.758694523579371, 3.0651835950514164, 2.6179736538054525, 2.5899233579948224, 3.9134646813795433, 2.7255518343092704, 4.168859043756119, 3.516745397642199, 4.138001383682221, 4.288713682827143, 2.539392916771117, 3.813847583662852, 4.268070727203652, 2.858983478479179, 2.926476686353353, 4.206955341332632, 4.255757699120574, 4.002209871162999], K Nearest Labels: [2, 2, 2]
Distances: [8.022244693661992, 7.609434196667395, 6.926653343901201, 8.545124971190733, 5.394908400635613, 7.7708783290523575, 7.392395262746305, 6.869112544129958, 7.685095494175515, 7.7456741617887, 8.006031049947095, 6.970995945013632, 7.009520832058607, 8.491736498330427, 9.14803842573486, 7.050041482739356, 6.846893195117157, 6.542791869375729, 8.44428714503779, 6.863272661551651, 7.929175153034543, 5.545328618661844, 7.219309147413784, 6.53260774320053, 6.436275651522388, 6.008327110735712, 6.587230211560901, 6.560201259193781, 6.550736190424918, 7.215001586694896, 7.076521772479165, 7.495581967572374, 6.240320763027014, 6.772540144908735, 6.1031234862377755, 6.514240584015002, 6.2795774254245424, 6.002387206286272, 6.795274484162302, 7.498121216251522, 7.290181095225555, 5.607258956559013, 7.8837689827210315, 5.156864624758824, 7.005453496190997, 5.828311620046233, 7.190882004029688, 7.7934602160120905, 6.621174036933312, 7.577486884985477, 8.60402252399504, 7.552961470929737, 8.174944446020639, 6.809972076774282, 7.238233723982544, 7.165693300659915, 7.565275090143332, 6.7374088412844095, 7.9803928017898755, 8.368551451987802, 5.5824865504262045, 5.2904633669993695, 6.413043293440374, 7.511655382206572, 5.4725231886484185, 5.967055324810437, 8.302985534754628, 6.721478030153093, 5.605471201078377, 8.831233643537168, 5.031600508317553, 6.964203524248333, 5.399698514433888, 7.897250199322655, 7.216588840897787, 6.0410164839483995, 7.302295687167203, 4.4914221742409435, 7.630509119962469, 4.774305102354422, 7.047970038129905, 6.255627619688304, 5.550901208877338, 2.6922897080771624, 6.763940114111521, 6.444041311900971, 5.084695315775215, 5.429562504138593, 4.4663027389186745, 5.647057946066809, 4.831997018914182, 4.606660990674986, 4.6040622941930405, 6.159281154031981, 6.6572526762854585, 8.482161599119253, 6.095805380106471, 6.906270121390951, 7.565935512495797, 6.514120041504871, 6.845503305979425, 6.20771560784459, 5.057996522783217, 5.786894401301064, 6.13632123741812, 4.295107032116266, 5.708772291439646, 4.49932740686347, 2.8021525547783486, 4.662871884635664, 3.6783424185498115, 3.9900815239400393, 2.7630636774951123, 3.6368267858948955, 4.205823961655199, 5.079304917685111, 5.331969225554494, 5.061758889832144, 4.41259592165529, 4.948713151789863, 2.574308136136959,

3.8001672335331116, 2.8852298613212577, 6.485311041002468, 5.566868744028017, 3.082022326037928, 3.3657488980814723, 2.4929194853740357, 3.7041799144677925, 4.3562093301861555, 2.842334243439452, 3.867571138232739, 4.220557710979126, 4.099913405390911, 3.915893950733544, 3.864099425732598, 4.597502645895163, 4.6463401074175925, 2.789534020645157, 2.978901584799463, 4.373543230669086, 4.487736188726666, 3.2496305089060136], K Nearest Labels: [2, 2, 1]

Distances: [6.910589596434599, 5.786361622472396, 6.436424627342188, 7.573180315450148, 5.417551244663467, 6.5496214643643675, 5.845501804840119, 5.88531530443061, 5.80904873366718, 6.2079321187220735, 6.937706316791768, 5.26068974886497, 5.529499613287377, 7.0214537369653085, 7.871522051644621, 6.1409250973009, 6.1786658110712045, 5.767957644955936, 7.335130275125097, 5.988675668369258, 6.724757353888779, 5.2778186417428925, 5.918391863198951, 5.4317632988248965, 5.57581872066766, 6.659363439065203, 5.401117569234722, 4.830856467532245, 5.9514828660070656, 5.557453025051717, 6.566483083191663, 6.416924317964523, 4.949630608590063, 6.1810832583467485, 5.210482509886924, 5.5299708208229035, 5.374346972079097, 4.875284618648675, 5.053236241214948, 6.739514274232125, 6.1777081862912615, 4.430405945801519, 6.749617821015478, 4.315769168202859, 5.692014221347258, 5.075813119516575, 6.1457007871807425, 6.2893108492570535, 5.5029195005701945, 6.292801149565235, 7.1036225249890395, 6.469827985026369, 7.012951819376464, 5.935054957323707, 5.807646082902828, 6.410924621792455, 6.254247265191742, 5.860230014918681, 6.913080201828765, 5.876271918693835, 3.9702920680614664, 3.057628544167896, 4.1843835479259655, 6.457152962106418, 4.722866833799902, 5.119929355928992, 6.442413333931508, 4.995605726865413, 3.8606372750805646, 7.7744432088140645, 3.711117591275213, 6.509574776885597, 4.055162772980118, 8.189729455920453, 6.454564767946559, 4.428909475588306, 5.0822711908918015, 3.611364473953179, 6.400244152365442, 4.9770543741396605, 5.7427228001442225, 4.93206535641488, 4.986674581014515, 2.168706348444929, 5.991263162829649, 5.040577966265374, 4.3720564893553275, 5.492440828190841, 3.9670334808014642, 4.803104784032316, 3.618021169442017, 3.8023269590720092, 3.1046950449637043, 5.335082998007556, 5.886853604709062, 8.130616385282945, 6.151018418368199, 5.364305998089179, 6.438126402965303, 6.081263847352729, 5.297810744652143, 4.277109871507128, 4.5413993673998405, 4.39631754130185, 4.697252402840356, 3.644960254887602, 4.233410629604273, 3.283740451053443, 1.9755511721134609, 3.708753874692164, 2.33749367966664, 2.7343503072167783, 2.428971491727026, 2.3922984480019953, 3.6353459177026535, 4.876495803474642, 4.69524931710711, 5.025873699997895, 3.1574630164734265, 3.113639106115557, 2.612698155170862, 2.549669099043611, 3.5459602692895738, 6.043368663937297, 4.864151902402051, 2.573419028995256, 2.164081060687234, 2.281203247429194, 2.2875467344333558, 2.5889675455684267, 1.5553368056849908, 3.690022278585967, 2.69545711253783, 3.7021230679586217, 4.610443586642099, 2.5240019182185227, 2.7652007258223743, 2.88473985880491, 2.581652731047288, 2.6285277786915264, 3.646167619823837, 3.426747776472533, 3.4448252466632705], K Nearest Labels: [2, 2, 2]

Distances: [6.393500643290528, 5.937498193217145, 5.710112766840931, 6.9688158980358335, 3.8496581821368756, 6.175679784693364, 5.82119328636937, 5.075406517268888, 6.09582309053685, 5.961986447827542, 6.565999022272192, 5.233883037612344, 5.396822689218752, 7.262541543220237, 7.861789957081441, 5.294478915715164, 5.252391616773481, 4.79263504368642, 6.896831070502762, 5.454697179516061, 6.205481567913154, 4.509483937906197, 5.488830981114711, 4.653077165281524, 4.6223348435149365, 4.610463374681169, 4.837837582015558, 4.815486001215042, 4.787614147799706, 5.504166197581055, 5.493610157684237, 5.856917458470025, 4.647535190726106, 4.9394113370928165, 4.259471395852973, 4.7489093596630525, 4.425926835776704, 4.14926339703936, 5.041713264015163, 6.427622057552321, 5.690402971145287, 4.589975567682929, 6.195429011518755, 4.177860319716907, 5.353465526042335, 4.610202375249798, 6.026933715153595, 6.1748613195908915, 5.138117158932251, 6.037096880284743, 7.350690693966307, 6.007468983266572, 6.509324334195839, 5.108367607981321, 5.454947171043286, 5.529379194832735, 5.825152120201375, 5.083708153110974, 6.286081179800382, 6.982806286172047, 3.9403198227545917, 3.683319734169491, 4.512092757444548, 5.76681971686352, 3.8227839989985206, 4.332602452368602, 6.825433275299106, 4.989710815461736, 3.4171300056693226, 7.434529558250207, 3.7264278953428085, 5.277670178333284, 3.568756584469336, 6.267090494236085, 5.

241086689607347, 4.789926473357699, 5.71961957906236, 3.2972622430487752, 6.333979697648488, 3.919338900991481, 5.363303609030252, 4.68446132072322, 3.8939051421512767, 2.8329593368120904, 5.222067707811556, 4.50839458954502 3, 3.6618436435643993, 3.950216742010464, 3.0944240872968414, 4.07874013727 3922, 3.7465834480466507, 3.2758469313630436, 3.538614014138839, 5.00270974 9131321, 4.9963008153156485, 7.300792029985123, 4.75749416816259, 5.3876225 09798675, 5.8892101773203045, 5.817641273140622, 5.4305918400006785, 4.6913 78445828619, 3.399189469310382, 4.349355975118122, 4.510793314679301, 3.477 389155236341, 4.3740629765992, 3.2984453167523475, 2.7625181821755005, 4.12 9168026858666, 3.1649787721906137, 4.473495382680446, 3.042593652066483, 2. 9368110967770504, 3.927607002673818, 4.337976293306131, 4.5255769212178665, 3.6836923838089106, 4.2449109811565195, 3.7558137325064926, 3.6462663644649 607, 3.772570532586383, 2.440759010807507, 5.600933979829292, 4.58875912720 1057, 2.797619583978494, 2.0257398411843592, 1.4865254293521637, 2.93513921 1767092, 3.5117993961857654, 3.1239040424431077, 3.4168846288560872, 3.6569 237671123918, 3.0301930657602782, 3.565389488141367, 3.0901769787050335, 3. 7995350005323547, 3.640483158664341, 3.615617480588658, 2.58975733335468, 4.209306216559985, 3.623157048259228, 3.267106940126743], K Nearest Labels: [2, 2, 2]

Distances: [6.548631962870527, 5.808984823395614, 5.955595075752298, 7.3672 96183989023, 4.361766068081912, 6.463614668526234, 5.69025893234331, 5.2125 80403099862, 6.160737773047578, 6.132458303366518, 6.917319679455814, 5.205 694993536378, 5.452129669325532, 7.339438417985175, 8.035599015720228, 5.61 168667344062, 5.642330938735604, 5.312608464879431, 7.268237365898362, 5.52 4254551897476, 6.499864576943071, 4.625164832730619, 5.548100324192354, 4.6 80008156545432, 4.778876559589976, 5.1469142953809826, 4.840164167440754, 4.853197372425297, 5.180467049092934, 5.550972672869538, 6.031290807975516, 6.212900606341554, 4.829156540845066, 5.466485833820085, 4.407505942137681, 5.0828200331941265, 4.42874550579204, 4.285682792524068, 5.117368020312726, 6.535079982620357, 6.016784447945111, 4.745701145504738, 6.299584312820262, 4.358965674183399, 5.6439010890814245, 4.906919104840942, 6.33207206994232 8, 6.400037725719253, 5.4678280171593805, 6.367453759248164, 7.415172453812 233, 6.069302900418115, 6.899653572509978, 5.429545743419817, 5.58233497692 7569, 5.983596725501219, 6.14147440475598, 5.33115116382828, 6.602326016647 811, 6.754111276591936, 3.9129042307733104, 3.67521384947212, 4.62069500452 8631, 6.348124385675682, 4.001408960454238, 4.558344221107729, 7.0288699108 873125, 5.046840650230183, 3.556902550209581, 7.647097377098599, 3.35716964 0371699, 5.885016034424077, 3.730005925802263, 7.258980003416719, 5.8157726 40113105, 4.700903583973732, 5.699886759335746, 3.1578468763124885, 6.39378 41889057445, 4.684991129068027, 5.649036423857847, 4.782006635259695, 4.173 290533824275, 2.8216090540548553, 5.067155425544698, 4.599099879347671, 3.9 779049098541517, 4.365843147044781, 3.115528348693597, 4.2605949758101165, 3.440709869171124, 3.0806990355723656, 3.182215988022968, 5.16593275874106 2, 5.420839315629959, 7.740061679422024, 4.802241302701315, 5.5541889459195 74, 6.408125276026155, 6.261476988575158, 5.671031995039818, 4.433295516796 3055, 3.631696684917497, 4.623651405377074, 4.641491892986887, 3.3369844242 823707, 4.127752863024542, 3.0246415598144374, 2.8033979196235954, 3.835688 9655858155, 2.8813072973905918, 3.821796914924076, 2.7031542610269863, 2.85 12541622275864, 3.828662917644539, 4.36228889657939, 4.407216356701083, 4.1 12888414491875, 4.069540989563904, 3.471407566870663, 3.652799335892285, 3. 5170191844048095, 2.894383703005366, 6.015739582071218, 4.841086653445074, 2.951741907514539, 1.975925741998125, 1.382618661323186, 2.292614014128099, 3.215574646967528, 2.8540816155877313, 3.6535779313016907, 3.30903842491113 53, 3.0572126332542644, 3.848923924689981, 2.3201362863116555, 3.2575011980 959805, 3.2633524508856904, 3.409489477791011, 2.74385566259653, 4.17196745 0278835, 3.513774071102839, 3.4695433131634306], K Nearest Labels: [2, 2, 2]

Distances: [6.200980350518088, 5.000203522970779, 5.870219508060732, 6.8559 10238451676, 5.001309983715813, 6.061561350310373, 5.014625149540288, 4.919 175868512625, 5.3798485021474205, 5.320895148052468, 6.306207055682893, 4.3 44136406119884, 4.792185451203938, 7.06632138579022, 7.53300475625877, 5.41 7638619696038, 5.580219743034388, 5.359680705875528, 6.8148076830287705, 5. 115477949942942, 6.090708895100422, 4.58256732046979, 5.000904615130022, 4. 266473754756269, 4.582285773186332, 6.2070448184798686, 4.507812625119197,

3.8713548197796, 5.404746520346087, 4.739038013958198, 5.937521266246836, 5.547865393099031, 4.717422458537885, 5.851017962998965, 4.255751700709268, 4.636929956962965, 4.630883068286549, 3.9855456605154984, 4.385256016323003, 6.252290260660597, 5.777600454102985, 3.8725305208432563, 5.725838964480991, 4.040823750306535, 5.055887996677054, 4.467367724318956, 5.813655729277452, 5.579733776518855, 5.088480814888205, 5.794080280265223, 6.59624269863003, 5.584116612463817, 6.551402621756722, 5.387150420394117, 4.8188958632167695, 5.585845086845453, 5.609795317942301, 5.136636144908762, 6.056222986659225, 5.709702769309083, 4.445055142925519, 3.545970264466008, 3.7213062283367018, 5.975413437638954, 4.6848520329442636, 4.790202565900475, 6.1983989412220035, 4.143031819741654, 3.865863422790772, 7.2145768888670085, 3.0402528344166497, 5.888162707954574, 3.021658132336779, 7.464153876974855, 5.374375697617256, 4.315356429309798, 4.688262444839636, 3.460231411555145, 6.23165119681576, 5.178600172419698, 5.3745291499241326, 4.196300090402241, 4.487648442394998, 3.440980358022627, 4.979132379467989, 4.357955525662666, 4.323891978111135, 4.946434849694135, 3.6367161738751514, 4.259588485728834, 3.845679662926969, 3.6243624398413643, 3.5369621034753593, 4.977803811970026, 5.216919407821313, 7.913448356688399, 5.074516573380063, 5.108727098137192, 5.971229156111543, 6.548740370482408, 4.911311359245324, 3.528803892812835, 3.77492645072326, 4.277438496479613, 3.9589771595656638, 4.095397253413565, 3.676276984856827, 3.1280535352392405, 2.9773448148745745, 3.078808524999743, 2.4252615538112328, 3.2886112911802723, 2.7463632126135127, 2.552521259169648, 3.520132889355483, 4.195056544355934, 3.954505931136733, 4.358183628787602, 4.110539936078444, 3.2249827652762493, 3.9805038548539833, 3.3226121592441866, 3.871793298214489, 6.16435800700046, 4.9837636368433875, 3.1949937264869654, 2.5602851107440996, 2.911540543295593, 2.01449897236371, 2.4073767175134524, 2.7984340862538897, 3.8452917313989223, 2.581910182177611, 3.175082421526028, 4.064529470162823, 2.074910649164104, 2.764078304814713, 2.7305593738957925, 3.5219494435438725, 2.8409648578016147, 3.8765246097850636, 3.5986425261942947, 4.0671384536964785], K Nearest Labels:

[2, 2, 2]

Distances: [6.876389492241815, 6.352789816802762, 6.356094961652974, 7.662995783288999, 4.509539608220277, 6.777861664555621, 6.079504394732646, 5.42604196848952, 6.388039986896472, 6.493947612972874, 7.092210845915285, 5.417522459227546, 5.791360994213879, 7.663545010317167, 8.403346953583393, 5.802123670708374, 5.719518588287151, 5.444029194591841, 7.4833252757339865, 5.796589989336801, 6.753132082984944, 4.930251081198483, 5.886479120962771, 5.129572397841882, 4.995364017973818, 5.175854297072502, 5.339125441550038, 5.24195402283933, 5.2837876798777845, 5.913089823683562, 6.115068687162313, 6.464225848104559, 5.1143015749241405, 5.599546313244274, 4.619464363223781, 5.316303687136007, 4.807327380099212, 4.611271829366327, 5.484984044728005, 6.783185846316511, 6.438415682695056, 4.975633242727725, 6.653182932983237, 4.69926481320719, 6.130353903284387, 4.982507369670539, 6.522536147199464, 6.756743796598427, 5.672266976051692, 6.650177625962079, 7.920194555998267, 6.335615360155648, 7.278534422493506, 5.722596528849699, 5.921263331761409, 6.221348467125156, 6.4294307065305265, 5.693102315688944, 6.937120808717271, 7.176378687714464, 4.330600512868296, 4.112528191368499, 4.653753781781095, 6.591617922671461, 4.140398318095543, 5.0001719214211136, 7.430638001546115, 5.402854116896119, 3.8575100219244716, 7.965874467012537, 3.8572624465449095, 5.617388865805773, 3.590772591368878, 7.066842949015211, 6.174445184244574, 5.148933211317369, 5.976596838560815, 3.742286723947113, 6.940723398109765, 4.714647124710481, 5.91783000312288, 5.1267923473713175, 4.3221254619876355, 3.038059101355906, 5.754461405922853, 4.929325858214836, 4.094937930692919, 4.4543169180026, 3.7577797205038252, 4.611023811048437, 4.052577262494253, 3.637772220544295, 3.672778280813927, 5.495429225187684, 5.756825025646234, 8.057188956879083, 5.014168034306878, 5.956650449246851, 6.774136994947516, 6.538258679201776, 6.0104824706641535, 4.829593476991446, 4.094676527477932, 5.099286061778666, 5.047072051174228, 3.8874135999196393, 4.696326377982788, 3.4379145236942907, 2.6416606091404486, 4.354305231607461, 3.2111150940903794, 3.6609189059138876, 3.0096409598785794, 3.1735104231640032, 3.929184506571799, 4.1861151978430025, 4.635480199287416, 4.040510315932711, 4.631021745662695, 4.171121099621402, 3.863815691820386, 3.7421514613051103, 3.1235787119247793, 6.173147804954804, 5.222249774015095, 3.4420604452090604, 1.8392257595945896, 1.7537641006362057, 2.7722064948

792453, 3.254903267775195, 2.689755454995525, 3.582178772271525, 3.70969086
91088664, 3.0301114919918217, 3.5534595291474194, 2.9993692329363735, 3.770
9716819459804, 3.4642685974263077, 3.4191288395278225, 2.745809896652242,
4.425499648123032, 4.0109385859628075, 3.257671079984141], K Nearest Label
s: [2, 2, 2]

Distances: [6.423599613977766, 5.552511993140562, 5.848451782428699, 7.0743
98185320633, 4.646121938519193, 6.210332211637667, 5.505582787452961, 5.356
1636535469646, 5.537921270946161, 5.924172528874598, 6.381207001591936, 5.0
58851612332711, 5.250139348721837, 6.741592949382828, 7.498339084925541, 5.
702150880550055, 5.676665111519022, 5.440260062587799, 7.041934274749576,
5.107076706372909, 6.211172808339841, 4.214405624599848, 5.408257636561284,
5.018609584785833, 4.969909625061884, 6.020574774160037, 5.069258498266709,
4.696454614433397, 5.295887637732474, 5.2191557661910695, 6.06474992684756
8, 6.061820025303617, 4.646325688934013, 5.871678054321935, 4.7143279473239
55, 5.026583903662477, 4.936976286302864, 4.537130619733794, 4.897614011944
089, 5.737295704118886, 5.804182866214889, 3.665270407223678, 6.14826348442
8402, 3.3852937246724943, 5.37820784340399, 4.101100801821252, 5.2689473496
9778, 5.926306038465585, 5.084918565012777, 6.073171051468307, 6.8610927622
0161, 5.982781762350476, 6.591696698770034, 5.542352809557029, 5.4645172245
23076, 5.88711805989628, 5.825677842499567, 5.395017582517359, 6.4860033194
08363, 6.449963226889275, 4.712735036606155, 4.074861258791235, 4.365486045
666243, 6.051342230795354, 4.662167603156951, 4.955417105938228, 6.42300109
5634594, 5.13704216263936, 4.351017208231231, 7.539991871349513, 4.17354328
450229, 5.7770460768693646, 3.9371005023194634, 7.433712246456968, 6.001430
52858155, 4.672873561400671, 5.342317155016555, 3.529748033602527, 6.467036
377813678, 3.953433555699038, 5.6525781336984116, 4.625050787260064, 4.9445
866384495245, 2.394046267986272, 5.7916231564834675, 4.883430509127575, 4.3
74599703055314, 5.233572754905534, 4.043472883525426, 4.859686662604258, 3.
996526249993426, 4.2002106343992756, 3.917113211797638, 4.638407815240498,
5.319168951566671, 7.746280643025407, 5.625688331105266, 5.227186932081599,
6.157051127128946, 5.455329981041337, 5.153162785643109, 4.547467308435433,
4.027903649347503, 4.530555691126147, 4.61411369716414, 3.969745093530473,
4.383885009695766, 3.7486474246882464, 4.99087852115331, 6.054012245335487,
6.750774094254885, 4.020264354092918, 4.430532952120524, 5.125196858088389,
4.632103641139691, 6.415602064565145, 4.944034382391975, 4.55337649688559,
3.0138634108941416, 3.888574775355793, 5.122021866889504, 7.99315519552997
3, 3.9671855024003064, 3.892204720275645, 5.846547342972498, 4.464325702001
579, 4.872651595649159, 5.0906409032546796, 4.609811453964345, 2.8453922742
441113, 4.799024772062735, 3.345908003077838, 3.9228385212240293, 3.4564474
227544184, 4.074379075250968, 3.438132627370557, 2.656814086848259, 2.80215
25547783486, 1.9755511721134609, 2.7625181821755005, 2.8033979196235954, 2.
9773448148745745, 2.6416606091404486], K Nearest Labels: [2, 1, 2]

Distances: [6.228894835854567, 5.368941909784647, 5.859301658603715, 6.8492
75414369749, 5.303685210635077, 6.169733275066315, 5.773279133601071, 5.392
407244587482, 6.0357839978509125, 5.713612530017281, 6.404468754030283, 5.2
208836261390665, 5.474058119256814, 7.53532847630235, 7.453848639975408, 5.
633152426409268, 5.785763107129137, 5.6669307997794185, 6.880069493955066,
4.99227436271284, 6.084743413205256, 4.649690469735421, 5.754063570901082,
5.1300381941457855, 5.668567013276984, 6.711408882276852, 5.35306798226075,
4.606008976330153, 6.195166524622767, 5.468066788455941, 6.369176151329789,
5.5715998084497835, 5.359682945973469, 6.19657106508522, 4.863256777834123,
5.245410251388141, 5.207908055231815, 4.680627838913654, 4.926237639546584,
5.815095835484239, 5.703441748813866, 4.243586554374494, 6.127620429483469
5, 4.018831877113506, 5.0706120095210725, 4.734164423396522, 5.986697915836
685, 5.751666412493638, 5.37263554542779, 5.742877770459107, 6.225754836230
515, 6.112979205715242, 6.596859432154721, 5.650122401043442, 4.81149422903
4394, 5.437375051651576, 5.680144437264513, 5.434151460202405, 6.0501297685
34999, 6.2501083544751035, 5.467869682605533, 4.242824242743934, 5.03004142
2468076, 6.388956943879644, 5.478466229609753, 5.14365391737407, 6.64938269
5849649, 5.280258968131856, 5.147904144013198, 6.304437455008295, 3.4900655
623343955, 7.076522121442697, 4.745685822129916, 7.504959552262384, 5.63466
6424572274, 4.405070749596164, 5.362763594629933, 3.5364793606088085, 5.445
714145851682, 5.547915352424863, 6.207391672378068, 4.949487406258862, 5.92
9995287563031, 4.295758778982162, 5.332375737841326, 5.291188566654735, 5.2

9121913642709, 6.040598729690752, 4.72092785268856, 5.899712857652164, 4.965521070204588, 4.806629976060724, 5.006533249708673, 5.430499617173904, 5.3691881722451775, 6.945500579665094, 4.534411243751671, 5.668362828805994, 6.26537816134518, 6.733026164410565, 5.022461826143789, 4.593915525786295, 4.60157301882769, 4.949805838806348, 5.025975278244099, 5.3270051209825455, 4.735069874942573, 4.54777848679602, 5.227588611755061, 6.082349341791614, 6.386070790975153, 4.851029521600177, 5.3369665477686565, 5.5175816376169085, 5.529669011894804, 7.384208935272362, 5.0343691551901175, 4.905666774621047, 3.944208421431835, 4.608056960224624, 5.079836530452644, 8.198622445370537, 5.432333119174847, 5.354746273896245, 6.319370770879274, 5.146117584680493, 5.3334591875487165, 6.121987284735657, 5.425241128035038, 4.241286847617025, 3.485786629236191, 2.5181980077355735, 3.182332544355828, 2.7015258793035466, 4.389051263871324, 3.48786289135145, 3.8044330606602066, 4.662871884635664, 3.708753874692164, 4.129168026858666, 3.8356889655858155, 3.078808524999743, 4.354305231607461], K Nearest Labels: [2, 2, 2]
Distances: [6.422740161007204, 5.637299686681096, 5.9026038955721125, 7.093862119791557, 5.080917555594546, 6.248081628828373, 5.634028430550793, 5.486853443228483, 5.717606284789884, 6.007902034631019, 6.442568120561684, 5.015221040921495, 5.390409770632941, 7.1770048686785755, 7.628634523875364, 6.023834712395477, 5.69399099445516, 5.579692534334652, 7.1771373309729105, 5.460100066447647, 6.322207312013954, 4.849341540866196, 5.665715121695708, 5.155879492133766, 5.3864459811910645, 6.3396443508753455, 5.2356748471307295, 4.344358108109697, 5.94599124850842, 5.281487627499773, 6.134601955416038, 5.82778105149909, 4.864795821655343, 6.064762185913065, 4.726615317176577, 5.149094322192228, 5.270004885000405, 4.537338094320919, 4.812149719819576, 6.201471492852154, 5.826576033569022, 3.966223244748784, 6.358732748737379, 3.8804279078862676, 5.143776891038851, 4.665438772441624, 5.851919675291324, 5.8605634706138385, 5.155417907070992, 6.11099150873802, 6.698723696732696, 6.176488118782091, 6.8541714151018365, 5.716691252241683, 5.158780325288571, 5.607173021614185, 5.818392109427609, 5.60623615352053, 6.337339292448666, 5.975950825041231, 4.797110391073303, 3.8112873368653, 4.482378554528765, 6.3835083329529985, 5.150114948149367, 5.0012156247250035, 6.526664780882611, 5.201417719991337, 4.276394813745549, 6.7356588862049795, 2.7033948490181063, 6.538359796581873, 3.946472626242225, 7.393463483406913, 5.7071753523926985, 4.494666148419371, 5.1974733011727245, 3.296505410031671, 5.494085934182952, 4.9101898660973635, 5.938325509058683, 4.7660019653414185, 5.160748219259204, 2.84920595931222, 5.298651411656616, 4.994761312799874, 4.4945171873987775, 5.5760419386453846, 4.017190112389622, 4.945685438455444, 4.001253240637812, 4.027532625926337, 3.6031785828331735, 5.185625979493386, 5.64077275344026, 6.996014076209136, 4.895109633268212, 5.416673671476595, 6.198954297830671, 6.225787777158378, 5.056674481734824, 4.009155545064462, 4.1984439383826215, 4.2199409485470785, 4.534036377001946, 4.1771504315067745, 4.266004152688325, 3.298368827024012, 4.583555092335783, 5.946253152038494, 6.31281171634181, 4.222967181115576, 5.057247786365121, 5.0757526534630335, 4.906095912886096, 6.934621586660143, 4.536234852837316, 4.314788236457197, 3.043531461538882, 3.853905983091682, 5.0674634496573745, 8.31487123930025, 4.683458486436066, 4.732265611595277, 6.1798024383373225, 4.626668527191578, 4.734408860718612, 5.1700710944902175, 4.427060039732595, 3.3454633900822177, 3.5378700562495116, 2.589296477901337, 2.773817496943936, 2.869113428683517, 3.3796228433672253, 2.7850022102127014, 2.7477660503035826, 3.6783424185498115, 2.33749367966664, 3.1649787721906137, 2.8813072973905918, 2.4252615538112328, 3.2111150940903794], K Nearest Labels: [2, 2, 2]
Distances: [8.305978058963221, 7.121341291783203, 7.736455924215873, 8.865443017364802, 6.818514178400635, 8.07127648405605, 7.155770848869466, 7.274282399045359, 7.097706938665869, 7.549293972836396, 8.236796024135797, 6.564197861486632, 6.93141003637313, 8.514920313142015, 9.257363808944527, 7.667287055200184, 7.552759375991267, 7.423984636432699, 8.861915291623045, 6.87006363279424, 8.092680730405394, 6.207087011260816, 7.276112720123075, 6.803038016081836, 6.875866200675173, 8.097422245187348, 6.825577131248603, 6.17180813624067, 7.499456582229324, 6.900586236965533, 7.9528461303470515, 7.753044173638255, 6.677440163205113, 8.069786659562238, 6.555772020929186, 6.8592247917993605, 6.813230906692551, 6.280545922928275, 6.500348660970255, 7.536486512512446, 7.716824345842138, 5.2953951258148475, 7.801272904734

687, 5.283346129553411, 7.110073944172489, 6.04287574676706, 7.250972414605
909, 7.504655227120807, 6.911341107113664, 7.8390078238216665, 8.2745725974
53352, 7.7174787276908665, 8.552590305904198, 7.596836954837416, 7.03302324
2116097, 7.655769613167448, 7.621435377123675, 7.302051343501002, 8.1269999
44667519, 6.7568860990498125, 6.08857134300043, 5.014458336383157, 5.602775
977392939, 7.748698718452782, 6.370330623737999, 6.724039765218323, 7.75223
84342080874, 6.2731276309982915, 5.862867782539949, 8.92377907179339, 4.864
061233117501, 7.545905405850037, 4.950088414493264, 9.460993004282962, 7.66
0733093884562, 5.730925278129456, 6.228490536254835, 4.976464865460945, 7.8
51995819018562, 6.323346197471486, 7.17221233454946, 6.201585944261406, 6.4
444098234498455, 3.6876097771945244, 6.993826748263433, 6.509662519592052,
5.91071624534609, 6.894632206728814, 5.552515146897924, 6.2190805690102975,
5.239994227270877, 5.415990258169232, 4.814956769743621, 6.324131072942918,
6.987775854033604, 9.524830597944812, 6.747405235570775, 6.72232911062196,
7.789110000198667, 7.539196650246889, 6.619896871549057, 5.369963469118732,
5.708237035153955, 5.7472178343994145, 6.071478204556619, 5.38314967886116,
5.536867885635347, 4.660051843817111, 6.2853828355898305, 7.754183970528492
5, 8.186415879504747, 5.370045096967413, 6.260787821009062, 6.6120707289092
51, 6.165345948172135, 8.314582191312063, 6.090416870038698, 6.092935992334
53, 3.2024279597052927, 5.313915880157349, 6.834850916254072, 9.81074299215
7726, 5.795296101495956, 5.2990089442358395, 7.2844516331614, 5.95508109194
401, 6.1744729816253505, 6.600113832668867, 5.96697339174581, 4.25199238797
0375, 5.200704905372183, 3.406251185158414, 3.666630922823962, 3.7929853914
238065, 4.770025932225228, 4.012536550504765, 3.03193234175696, 3.990081523
9400393, 2.7343503072167783, 4.473495382680446, 3.821796914924076, 3.288611
2911802723, 3.6609189059138876], K Nearest Labels: [2, 2, 1]
Distances: [7.391761523171228, 6.517421258008535, 6.475077696472973, 7.6117
91727364501, 5.517227511078641, 6.997060577712782, 6.416184829431591, 6.268
45370941645, 6.7034144301263465, 6.590327489247783, 7.386156678274767, 6.03
334347886308, 6.095001358403891, 7.91115052973804, 8.360030806143891, 6.462
8291074476465, 6.436592107918125, 6.179439565089928, 7.687130298091595, 6.0
43194184561092, 7.280388504257612, 5.151640409598634, 6.508153206370773, 5.
80288780956958, 5.967907785615926, 6.6710128070146295, 5.672386063762575,
5.545000704731679, 6.4109695041569355, 6.254802764087633, 6.76906271319050
6, 6.645645647423526, 5.951685855297636, 6.820452599035835, 5.6112584749340
21, 5.836305742862972, 5.761183720992026, 5.346153973154628, 5.991047641730
553, 6.836167227093543, 6.631346449348841, 4.671532679806562, 6.81653674861
96775, 4.436454118626186, 6.127328753963377, 5.106645002549394, 6.527562976
554449, 6.695763418686858, 5.979873080264105, 6.698459379500511, 7.53702089
8023913, 6.845515254964561, 7.352177528954219, 6.328083946932863, 6.2009615
14244432, 6.511119896324875, 6.686984595598837, 6.033251604996845, 6.974474
248937697, 7.28528045918243, 5.561744218753848, 4.526712335006112, 5.619056
9296332535, 6.924260481131551, 5.78800588648932, 5.692399570996325, 7.32360
3222005374, 5.762719975279432, 5.254653366896495, 8.583480563675142, 4.4988
74500099432, 6.890303044020141, 4.652601167025818, 8.296297663507614, 6.573
684603828061, 5.520069086335076, 6.292089083154521, 4.354091176934898, 7.33
8150668395314, 5.384836238309579, 6.746803972562334, 5.571889938645011, 5.6
88960861761521, 2.8813962692409345, 6.0444338588491675, 6.022271209672557,
5.377441686799617, 5.9002747660062935, 4.4332599786749975, 5.46053146954882
7, 4.749684031526806, 4.582857680288521, 4.43446484579878, 5.85478355852960
3, 6.177550642569446, 8.723115121374862, 6.017231068222793, 6.3334653368769
02, 6.844429348046725, 6.89358407062947, 6.274757717042425, 5.3969505497949
08, 4.621562606863486, 5.279341376382498, 5.481288780957133, 4.563046961858
33, 5.01485254128717, 4.145240184209737, 5.696326348682866, 6.5112375213174
89, 7.377979351794811, 4.9166317614635995, 4.998833931335879, 5.54149401225
6569, 5.049577521086887, 7.553096682919713, 5.571566246470497, 5.5287649241
28773, 3.5385613952949164, 4.930200014247506, 5.478381008487908, 8.00726838
4710185, 4.72182215207422, 4.910345676877415, 6.359419671926125, 5.07045345
9739967, 5.112393900880069, 5.230848345720682, 5.194306367328916, 3.3156066
642392403, 5.020182265937592, 3.2204515459177, 3.275536404991104, 3.5129483
349682658, 3.9126819087713756, 2.9439027175320303, 2.363998069438682, 2.763
0636774951123, 2.428971491727026, 3.042593652066483, 2.7031542610269863, 2.
7463632126135127, 3.0096409598785794], K Nearest Labels: [2, 2, 2]
Distances: [6.5727587435588175, 5.9925100662213495, 5.792571354869086, 6.74

2829571949585, 5.010624684331327, 6.11265367636036, 5.718395179489416, 5.704721199378345, 5.786459916135368, 5.733587406800603, 6.601665718062392, 5.262985359607667, 5.3806282409398785, 7.068119882356258, 7.478326238803678, 5.771266963827147, 5.561438592628625, 5.290868734039594, 6.836121796074885, 5.574032932581444, 6.4260377274113125, 4.993702378730767, 5.965361269221549, 5.358164915543461, 5.499112124675524, 6.275211645741151, 5.121610869257621, 4.894753481434664, 5.8241503710565095, 5.491192346393878, 5.920534216957444, 5.789415904406846, 5.226680550809369, 6.123105560103664, 4.96712076468545, 5.131452841867116, 5.195323890291027, 4.720406743888114, 5.342033692484107, 6.368389003213658, 5.728331775550003, 4.422999908948792, 6.1740445528597085, 4.162543730154837, 5.32363003738462, 4.792505326660964, 5.967099065753206, 5.79964566543315, 5.021178153324976, 5.755235303139253, 6.696998333521818, 6.150364071963278, 6.540780685396749, 5.592564849641386, 5.351996737321108, 5.558983410921326, 5.732038509551736, 5.3883402566398955, 6.060280130517888, 6.874843390096564, 5.222224630720431, 3.8695856048937856, 4.970584446337494, 6.24167446028253, 5.489040516167379, 4.964168015711502, 6.520397512180514, 5.3659008784470865, 4.623499061273077, 7.83274842110906, 3.9554130329486497, 6.324251721605845, 4.135445895497223, 7.681170950950128, 5.952409791845664, 5.200734795277872, 5.552877615620816, 4.342724434494163, 6.423343128838412, 5.248295861802575, 6.310409963371196, 5.06160927340035, 5.420919775373327, 2.887566244089634, 5.46215518851765, 5.466948621564696, 5.0122834912399, 5.824187818848915, 4.376857301474352, 5.267948165244642, 4.510553838303745, 4.2909680062392335, 3.9964269099734797, 5.632098094839583, 5.84921931859879, 7.867041786722392, 5.67860521994807, 5.79307509601731, 6.092235940161237, 6.5536949933821935, 5.858771518981424, 4.931903833918081, 4.4334045188374205, 4.867286237356815, 5.093412059244745, 4.566447642021041, 4.6959401638169505, 3.7024550487415184, 5.057282170057744, 6.044896183359549, 6.884398978375933, 4.65334315460717, 5.139306801232945, 5.098913059680427, 4.832460258853111, 7.312721780898716, 5.2555425074083875, 5.029062054137327, 3.6793556475701905, 4.91588594596163, 5.231428651884224, 7.767421625312193, 4.998450022301188, 5.150963979695769, 6.310359341046467, 4.844437405169978, 4.512108563350988, 5.089626526253514, 4.721661673493444, 3.8191710140827717, 4.25239970489445, 2.920335041671646, 2.826921588216728, 3.32002506851855, 3.1757187758843313, 2.4848241914349396, 3.2850439330622088, 3.6368267858948955, 2.3922984480019953, 2.9368110967770504, 2.8512541622275864, 2.552521259169648, 3.1735104231640032], K Nearest Labels: [2, 2, 2]
Distances: [6.714773290447842, 6.421748534501509, 6.265335693949703, 7.168851107392768, 5.274842832215674, 6.549635156011257, 6.414511006574935, 5.94487813663283, 6.39091371751489, 6.24332858716905, 6.9633079671851235, 5.834473195755057, 6.103717754156446, 7.800904855531616, 7.950048593114191, 6.037214826965445, 5.777843864725712, 5.636375713191471, 7.203877290145411, 5.507555267182212, 6.4884439120919035, 5.2396358526375355, 6.488764315511666, 5.9753177378492115, 6.1302740359232155, 6.553782378751836, 5.9169380341412605, 5.553524103023592, 6.3619031916947195, 6.176818048822128, 6.459848895575781, 6.116320881579274, 5.812515416982645, 6.391940548422207, 5.292395789915815, 5.637795729591827, 5.551784729935649, 5.269700346298267, 5.793063263526478, 6.193963531735506, 6.0387854694587375, 4.940733463939113, 6.593054347293348, 4.47514724622408, 5.746129020549983, 5.054034833423182, 6.423955834680949, 6.236833907364512, 5.541808901773301, 6.070228100004583, 7.0446402647365085, 6.658511607561851, 6.995517324776533, 6.037481863538846, 5.4194803935553235, 5.763969365528945, 6.01088269862612, 5.8820405712920945, 6.387806846929572, 7.323301777597662, 5.938978867642876, 4.4674733994889895, 5.518302224638947, 6.801608123613777, 5.804023552118634, 5.479957799441894, 7.2237952249392, 6.077634852765835, 5.385289151626442, 7.348259856925876, 4.251327902511375, 6.9417639071369335, 4.795947937752907, 7.611825643645683, 6.436136416787455, 5.365588578415156, 5.995824871631574, 4.4379771295145485, 6.257454207001986, 5.735602060992887, 6.873786520077889, 5.659189729851024, 6.335897835968802, 3.9881764087393523, 5.956745644739827, 5.956885286014178, 5.633202858042705, 6.459793628616492, 5.322039200360347, 6.445450338271792, 5.461098081950769, 5.174672442985051, 5.132166876418366, 6.109611000278105, 6.1176612824480125, 7.485518966224081, 5.097150373441429, 6.39041371859714, 6.688112653431981, 7.15249423304202, 6.134928699215081, 5.484863813158917, 5.047980267750206, 5.661854525221165, 5.887520243000121, 5.520275587601356, 5.47443937658255, 4.649291165524642, 5.798359430615121, 6.61649

9546163426, 7.053848269176999, 5.235345918029619, 5.557372744842051, 5.88384425443387, 5.7833754765588195, 7.9732791459667, 5.939105741653141, 5.290085896679107, 4.46578448529333, 5.5653160973039215, 5.772736746846979, 7.831721714824136, 5.326536498264886, 5.539489564507636, 6.758585696897157, 5.616997215492897, 5.355042647200387, 5.8537129696509265, 5.496118366626715, 4.6626550414569286, 3.7581182369477153, 2.4344944021282084, 2.72769883782696, 2.7323299668203234, 4.62139316953012, 3.6069233971682664, 3.889714868588349, 4.205823961655199, 3.6353459177026535, 3.927607002673818, 3.828662917644539, 3.520132889355483, 3.929184506571799], K Nearest Labels: [2, 2, 2]
Distances: [6.5293096231691, 6.845495122671953, 6.202974693512184, 7.064707447022379, 4.945288517165816, 6.611015458330667, 6.545365947402562, 5.784045472431345, 6.565026061274753, 6.3328968119625095, 6.92129747440628, 5.914567040283649, 6.3058084751497185, 8.059823443527872, 8.094576761763795, 5.927345241570135, 5.382354857785504, 5.458030312055814, 7.235033364762703, 5.391566267240016, 6.312455706893106, 5.305834373380606, 6.540735058833971, 6.021923238279573, 5.970846800639494, 5.944215300618644, 6.0786566641890625, 5.881872358221639, 6.122837490953991, 6.335340890508987, 6.102789931292236, 6.051730523590417, 5.986911699053499, 6.218124063351609, 5.046070364421483, 5.5360128213550945, 5.420792908361864, 5.2942012720620895, 6.115154572132577, 6.142145966228214, 6.093594173974554, 5.486881391282139, 6.47943044022239, 4.965655735121403, 5.973575836589025, 5.2137209905369355, 6.627564416681982, 6.352667366824705, 5.527560245687233, 6.210539013604174, 7.380329230622648, 6.5353998001354885, 7.115746514174923, 6.012629362426033, 5.361256629478319, 5.408429187489379, 5.931704563988224, 5.904704992425051, 6.219052357122713, 8.144468179633652, 6.616499636354808, 5.369226050771629, 5.885470095629834, 6.882985712038882, 5.955611110835645, 5.551435402679308, 7.7002785710858515, 6.544540817125722, 5.750000330020439, 7.217569279520162, 4.604753316266205, 6.456509825805393, 4.76837827697798, 6.808859144150929, 6.294699002939131, 6.065501824928941, 6.470228771205038, 5.081016921614546, 6.403596150193704, 5.963787136761529, 7.156999049554248, 5.913331219245625, 6.430136280375245, 4.96428685980818, 5.852740341817667, 6.049097888951262, 5.861741304162215, 6.450305764293643, 5.814512351339319, 6.771923857794671, 6.095730213620167, 5.587629751618752, 5.767742528113076, 6.403846198083868, 6.249448986113133, 7.151721946575521, 4.372982075508903, 6.8206649787300835, 6.8693527844248266, 7.586180412386091, 6.693711394719717, 5.9335707719944955, 5.211339662493461, 6.2822118651452055, 6.308667219514952, 6.211694771998146, 6.016785889972535, 5.092678766047067, 6.255082636115403, 6.510521193534318, 7.437323154897119, 5.484753375419363, 5.882480154697503, 6.079294569911868, 5.9935948986171415, 8.357755408497964, 6.323580613371754, 5.2844843309101535, 5.629727125496465, 6.266015539098366, 6.036368328405279, 7.364167285026841, 5.327078642269553, 6.125873108343695, 6.996065733585453, 6.0514811003945885, 5.620853603633633, 5.8688157461526975, 5.5935081185995426, 5.4154966333220145, 3.5434277748073852, 2.7519009958318605, 2.7912794730722883, 2.8785490287968316, 5.57266971363361, 4.932177217140902, 4.932763862624656, 5.079304917685111, 4.876495803474642, 4.337976293306131, 4.36228889657939, 4.195056544355934, 4.1861151978430025], K Nearest Labels: [2, 2, 2]
Distances: [6.778927105070349, 6.623924416154667, 6.291766394294863, 7.119945477503015, 5.486313403299572, 6.717387763916033, 6.587750164756369, 6.180741789526817, 6.6389586047107745, 6.142242835122124, 7.137990993936324, 6.036244955995267, 6.265812501633623, 8.093542674871006, 8.063931368521247, 6.1284285836801065, 5.920028284581271, 5.78607369224517, 7.3014539245623356, 5.6585188476815285, 6.5213211561248565, 5.513286140394319, 6.646329760994659, 5.992785363148263, 6.195473328058508, 6.653910874608278, 6.019505173329533, 5.814390678700679, 6.524827852167466, 6.304750900306201, 6.439864499879233, 6.123158506065538, 6.205234515087508, 6.69823486908885, 5.444282796925514, 5.653104279163535, 5.642746982880529, 5.410976222655957, 6.056776781395352, 6.5040069662071955, 6.078809173317852, 5.515156295441537, 6.506908339628123, 5.0445968674340085, 5.799307663738344, 5.61044790739851, 6.829004085842638, 6.225120831197853, 5.7067870455129635, 6.135003547235527, 6.998787060491325, 6.6604229475676116, 7.0514681373353625, 6.243389430117132, 5.445729753117773, 5.6307889376331985, 6.04060044820885, 5.965981802688288, 6.225790231091519, 7.662286715357709, 6.495775712348477, 4.94809338548941, 5.887903939428138, 6.656277281488167, 6.12449934034132, 5.494126518070889, 7.234748045712089, 6.0902695780444835, 5.8521178547208335, 7.408758543824775,

4.59533908445558, 6.886958911752198, 4.92016799737125, 7.569940960305801, 6.186417925802297, 5.717537707671708, 6.104531249532275, 5.054658035090756, 6.412553320970458, 6.30353162408805, 6.95538274592375, 5.776721707261969, 6.4546296748415894, 4.9438641226420765, 5.577832841039634, 6.03741628397699, 5.958423067556984, 6.5704752593711815, 5.61238468476899, 6.5894877576002, 45, 5.875521177492714, 5.383514342422492, 5.587436709447725, 6.335033714521, 3205, 6.069097538148101, 7.62482531060098, 4.972163069227668, 6.54231790368, 8633, 6.578193184539794, 7.605762042396125, 6.466041787650483, 5.7123886246, 98965, 5.183701921553908, 5.922983386051475, 6.07849986038356, 6.0890108311, 82854, 5.658499930551885, 4.98646958053389, 5.901256681762161, 6.4133052407, 95701, 7.232113717625735, 5.452485816804872, 6.035858789148753, 5.832599517, 013932, 5.823285670128575, 8.265969896079019, 6.019612969209186, 5.47528191, 2425405, 5.217433552094614, 6.108189973987565, 5.772809315092299, 7.6272020, 92477467, 5.8543337319441955, 6.257046794586613, 6.861848619765993, 5.78836, 6834116265, 5.311550764747127, 6.063697817942831, 5.608043190195848, 5.3288, 605957047315, 3.778645080662111, 2.8835765828935167, 2.8418707709699143, 3.2056496146091766, 4.9670755182445125, 4.33956020516655, 4.961550442360782, 5.331969225554494, 4.69524931710711, 4.5255769212178665, 4.407216356701083, 3.954505931136733, 4.635480199287416], K Nearest Labels: [2, 2, 2]
Distances: [6.326106857401167, 6.729481641720537, 5.6341333235155435, 6.692, 988282785411, 4.215146215793793, 6.328350091353374, 6.354390394874782, 5.68, 2679000823398, 6.3749867234143585, 6.014766110721069, 6.681993212200143, 5.762438741713049, 5.989009342078885, 7.690225108108087, 7.8452092477939885, 5.65902419788643, 5.033812826343268, 4.951985702091331, 7.030311679836582, 5.388820126002023, 6.0489609115493606, 5.072986442987011, 6.22497860583448, 1, 5.498290127911261, 5.374213181739128, 5.018736115591826, 5.5882030346529, 97, 5.635839590700638, 5.480252594666841, 6.006777790111931, 5.337482896523, 24, 5.76648484457139, 5.578221971267154, 5.779879777086141, 4.6415805610385, 785, 5.003609030196008, 4.921828653574317, 4.7800977036352394, 5.8473838778, 14205, 6.277100773135939, 5.61914024340881, 5.529333564138913, 6.1116405357, 64393, 4.900899229329634, 5.512822755615009, 5.3410154922241215, 6.47879046, 26615065, 6.031873477643969, 5.113390491469914, 6.059483898999749, 7.155682, 800428864, 6.17302727289839, 6.679208716670219, 5.635999909799252, 5.283220, 451726018, 4.85393429805522, 5.614603624802214, 5.446857266823771, 5.754726, 882394614, 8.073763221761249, 6.180982712412556, 5.142259494393158, 5.70340, 1322840576, 5.951405826021078, 5.368756557383109, 4.694611388882765, 7.1918, 34267428782, 6.124118289629303, 5.214690576342393, 7.124677428457438, 4.404, 8206080406835, 5.4812182392344635, 4.3015495467933365, 5.98411321841662, 5.278264968384292, 5.914970347924766, 6.238632148469562, 4.957032588064427, 6.115085351344348, 5.336188782357657, 6.453507783939473, 5.440319950385627, 5.471537564341825, 4.792890438214434, 4.890091380992522, 5.418983654314266, 5.130305796276095, 5.5676566219549795, 5.053592281066843, 5.84017059896214, 6, 5.4874041109235465, 4.868300977287783, 5.197402312895415, 5.849894325147, 865, 5.5074938469128725, 6.723157065089578, 3.989834844076695, 6.2202861471, 40588, 5.996337225650969, 6.911172535414771, 6.482040580150254, 5.671274765, 355302, 4.457609118490038, 5.556756227976326, 5.794726385775181, 5.72122035, 7446459, 5.578090948506427, 4.549001414954787, 5.4911417793976, 5.399187261, 699131, 6.858831822526706, 4.835517122231093, 5.395642771891055, 4.90176488, 1029894, 4.978014907402678, 7.484272859210994, 5.690903118241931, 4.6168207, 631048075, 5.731521816508161, 5.912616207123762, 5.187938334632136, 6.41267, 5954648525, 4.7553886784507995, 6.056790880933612, 6.383439827402182, 5.321, 915539530511, 4.650093221278234, 4.710903792136618, 4.580122895677246, 5.04, 78831803403645, 3.629243810942674, 3.2941821579065382, 2.9699562114586384, 3.298356781821031, 4.960980756520011, 4.894579185492525, 5.067855027007043, 5.061758889832144, 5.025873699997895, 3.6836923838089106, 4.11288841449187, 5, 4.358183628787602, 4.040510315932711], K Nearest Labels: [2, 2, 2]
Distances: [6.780907289630306, 6.466063240081097, 6.077935846156874, 7.0547, 973674697175, 5.699534845029805, 6.289121826041108, 6.127456597785435, 6.37, 3531783089865, 6.1239707024797605, 6.223966727386618, 6.984285879732636, 5.951865752606038, 5.911704896326047, 6.869283235813209, 7.310986870473311, 6.261624272465387, 6.027234238557553, 5.708654984612335, 7.000101910264842, 6.2671123821021775, 6.753282132984198, 5.775459174281701, 6.63019868069437, 2, 6.255107186645334, 6.441227478902386, 6.92556591583335, 5.82219674870653, 4, 5.725183198222325, 6.460195579326092, 6.04549074094625, 6.52049113386573

3, 6.319851116199287, 5.567836847766893, 6.439432772294241, 5.8079725046909
87, 5.948769417282471, 5.845437988830433, 5.602121060038971, 6.003848752184
7035, 6.710614658391682, 5.858202144164029, 5.370697021114545, 6.8731736522
75852, 4.908312012849444, 5.775408692368153, 5.65891010484712, 6.3862313638
09652, 6.237230964770111, 5.370950464964221, 5.864587318540808, 6.685774753
587928, 6.664018254484865, 6.741075956778272, 5.929943970036039, 5.93620054
7098913, 6.099382397719364, 6.092281085025229, 5.9446301548860045, 6.558161
810341617, 7.45132801992122, 5.620774352385664, 4.312996793011783, 5.919163
90742117, 7.030649212403852, 6.184808663753661, 5.417932652552603, 6.814140
459633906, 6.346707701339258, 5.3267355017281615, 8.041689227488826, 4.7997
17721133229, 7.461830422307013, 5.653756250451878, 8.57896710462868, 7.0357
81553572231, 5.758173040438411, 6.173966627523881, 5.106966219151804, 6.234
659011470631, 5.97827250263627, 7.091028839005919, 5.894344848151698, 6.492
417817065579, 3.438146523795426, 6.202105699628473, 6.287790214813503, 5.85
1299675137499, 6.8838267503319175, 5.295193665627167, 6.376277961083437, 5.
052627219694351, 5.010945763887526, 4.5348529356110365, 6.431999156520005,
6.838230976574853, 7.778974630302606, 6.7159241703488615, 6.39554892160237
3, 6.748727956839614, 6.703751925301889, 6.5106034012640865, 5.841024129788
16, 5.605726275496055, 5.731209553883187, 6.030036863147548, 5.060280314155
445, 5.461253155420078, 4.590473129614953, 5.583507401628795, 6.70720361056
6709, 7.011088278979733, 5.970792177595018, 5.659272432829059, 5.9478536864
13713, 5.98721884304343, 7.680497741879373, 6.239016400696122, 5.9576421221
980524, 4.5729951296183895, 5.653283898549756, 6.040760467910884, 8.3378035
59400077, 6.070543225370745, 6.040873223647745, 6.991709987722262, 5.861351
855939127, 5.376299070730918, 5.9301643768250925, 5.720663454611678, 5.0148
58187684912, 5.3097205165266885, 4.427127587262562, 4.547148787353731, 4.94
6598090261708, 3.4654165548086775, 2.6250057147210444, 4.315672648510254,
4.41259592165529, 3.1574630164734265, 4.2449109811565195, 4.06954098956390
4, 4.110539936078444, 4.631021745662695], K Nearest Labels: [2, 2, 1]
Distances: [6.732642370837262, 5.96955474060535, 6.320767262278292, 7.4130
30162746467, 5.648005843610371, 6.498848628095838, 6.162425961990424, 6.159
590379560554, 6.1065020079159895, 6.081113713236805, 7.038883170986354, 5.5
20232996141051, 5.790681134070235, 7.351542976104709, 7.818531011725335, 6.
25165846275563, 6.1338993412843505, 5.680300925385868, 7.284183434046303,
6.284677923527194, 6.5423005075486005, 5.900513252687681, 6.25295503573150
8, 5.605624173060807, 5.9924994151867, 6.748332172969196, 5.641652339510935
5, 4.976199436898235, 6.39506261055175, 5.747286885645285, 6.48026340133686
05, 6.162160786375756, 5.266102436019053, 6.228778331663987, 5.331270302203
512, 5.586301371384361, 5.526137239605328, 4.998552501989903, 5.16671797988
3172, 7.140258393173175, 5.835118914879253, 5.335185479525855, 6.8417417049
0939, 5.058328355160799, 5.343740157257571, 5.9752836860153655, 6.825856051
0678965, 6.109077693547315, 5.514434236394113, 6.071560686586339, 6.7061140
12774874, 6.601455857046069, 6.954030580505695, 6.017343476011113, 5.496321
791243207, 5.940819868448328, 6.051859508532788, 5.94731969444804, 6.538977
683821246, 5.892748127627414, 4.355238662107599, 2.909102816021325, 4.71155
77469117875, 6.344848082251468, 5.084430785060312, 4.795941954840353, 6.305
7571777878625, 5.124137608227948, 4.131978813540245, 6.848041381447193, 3.0
37662901153494, 7.030261813152808, 4.509235587077335, 7.94004389620377, 6.0
00071272988727, 4.379152621500713, 4.968389559851772, 3.9109067311509325,
5.210209896109662, 5.897714450243995, 5.852823959921113, 5.137042992382447,
5.330808917591569, 3.6718088480867, 5.2307609924824146, 5.073732182462762,
4.657356235115664, 5.833277500858383, 4.259451143573635, 5.210315077004428,
4.011377856859059, 3.795722757316634, 3.400233153107454, 5.852447863847478,
5.910914834611819, 7.147294415260346, 5.526646049502049, 5.45294187973955,
6.120920475792544, 6.6679524049818815, 5.397126795451289, 4.27541525464362
4, 4.814339245493376, 4.350013093348449, 4.928153601605253, 4.3453838140932
27, 4.375710691695209, 3.415689790594801, 4.411250067509443, 6.069970158221
195, 6.878927101364879, 4.983184780247366, 5.216688221762987, 4.65825320572
4709, 4.937240200933382, 6.818081818070633, 4.782389481737993, 4.6276311659
18599, 3.8858394855183915, 4.922968677480513, 5.4139452387999425, 8.2412279
79341186, 5.950603301807567, 6.417857608369681, 7.096583534787481, 4.952627
2377987395, 4.638700928342838, 5.292204970866787, 4.670466903018471, 4.7498
03118606547, 3.7032858419320367, 3.4903114501986017, 3.2483057938829223, 4.
166919846974114, 2.2311186372173735, 1.9254777988295986, 4.223915843566975,

4.948713151789863, 3.113639106115557, 3.7558137325064926, 3.47140756687066
3, 3.2249827652762493, 4.171121099621402], K Nearest Labels: [2, 2, 1]
Distances: [7.506491504869618, 7.076843508136972, 6.529753895142322, 7.7529
17498131963, 5.789349572066463, 7.032580488274167, 6.707926118525003, 6.682
576930215532, 6.8380959395324, 7.029991775678933, 7.406975399015846, 6.4205
59338346969, 6.430145882720078, 7.686858943256288, 8.19348952974309, 6.8067
26950180135, 6.49395683514443, 6.274973212933695, 7.731785420501929, 6.5834
58362368702, 7.481577997860727, 5.649339797146948, 6.9824193226945654, 6.53
9719175422067, 6.589905365179426, 6.871252213199265, 6.260631683589338, 6.0
3616930350091, 6.730047903912786, 6.598612081303986, 6.8761113125351265, 6.
866684869161718, 5.985840521096583, 6.8571580403749, 6.081753474390342, 6.2
90144887852457, 6.346209087441357, 5.909070904536701, 6.4425874415059665,
7.038202961465011, 6.704186980847996, 5.0985485288066705, 7.42083760627019
1, 4.799329676469303, 6.411344122923674, 5.476995977669511, 6.5826046381589
52, 6.977844862479918, 5.962189868165451, 6.732545314514022, 7.614325351270
52, 7.1634453149315345, 7.539787492733816, 6.472429846893047, 6.61424062239
4225, 6.670628892093451, 6.874283024773832, 6.4300983876766535, 7.306780708
9977315, 7.874532356155533, 5.903477767218223, 4.944874925299688, 6.2034099
22292175, 7.47558987098011, 6.293749708146852, 6.000778819299897, 7.5881258
97349417, 6.626177672029332, 5.700858219859277, 8.599379070296674, 4.900196
890940345, 7.441841012814828, 5.54266080749478, 8.484557892747208, 7.288498
568684652, 6.039677974274034, 6.795551154863029, 4.930050883927398, 7.11354
1001111236, 5.453164646909622, 7.342373057526162, 6.138831626054725, 6.3249
51805598129, 2.5816088721193817, 6.743792150090642, 6.645350008970979, 5.72
6581375149595, 6.553049688300615, 5.078651968532281, 6.1638017980012245, 5.
10270087246311, 5.06365385399364, 4.6242442865100415, 6.39172893849234, 6.9
99904496662902, 8.324953987631089, 6.68856561765557, 6.7961352340931604, 7.
2875090344511255, 6.707382501443107, 6.682037652212727, 6.035125034275183,
5.48584160710348, 5.796406870921959, 6.0945246561863975, 4.788019926066419,
5.648791086059777, 4.563479693823257, 6.016375763893695, 7.007017049291303,
7.115564777810553, 5.763724571814312, 5.433771430453632, 6.199091054597391,
5.957296851437665, 7.659004900152867, 6.280299808406429, 5.991554048605688,
4.3058195916278885, 5.260687757512704, 6.11384427731826, 8.377280504209013,
5.077173986879711, 5.107116191894908, 6.69795705133479, 5.809871232149152,
5.688266433909175, 5.471447082549395, 5.6373723553451764, 4.00826648860589
5, 5.747152668531718, 4.282364846530091, 4.3514000783867735, 4.500931868597
752, 4.185458549038615, 3.0795271403146733, 2.8942382231455546, 2.574308136
136959, 2.612698155170862, 3.6462663644649607, 3.652799335892285, 3.9805038
548539833, 3.863815691820386], K Nearest Labels: [2, 1, 2]
Distances: [6.742942145726734, 6.2871763214610805, 6.024001833561214, 7.023
071216568454, 5.397020868861864, 6.389203289323173, 5.873683322879737, 6.14
3393263084341, 5.837551150658398, 6.028081164745266, 6.867692193982548, 5.6
53238415582772, 5.713062117153314, 6.899838948966745, 7.471799967583178, 6.
2008175213450185, 5.938487992428053, 5.748469019581256, 7.159249530478423,
5.7326534882374265, 6.609600886635005, 5.143649805742314, 6.27517073643576
7, 5.907634758767661, 5.910268711237496, 6.772987851762661, 5.5782471585247
98, 5.4897958093067105, 6.13620072795483, 5.7291944388291745, 6.38377490255
0189, 6.304562145590634, 5.488371608367991, 6.6289069408093395, 5.504424683
135987, 5.577727015286234, 5.605896851510679, 5.333261412254184, 5.81850683
00551315, 6.231427015436006, 5.916863654736174, 4.684039738560128, 6.463948
087360429, 4.256179945979932, 5.711859360492862, 4.9989258492644835, 5.9235
76101947652, 6.027030328283228, 5.22826390048604, 6.0078135721212345, 6.77
5227855079539, 6.404078377047472, 6.786415331864891, 6.002200312946011, 5.7
69734339845843, 5.997572337842638, 5.968389107623521, 5.83084554595761, 6.4
71232824791834, 7.285248838147116, 5.830856490066997, 4.460673227433025, 5.
459417105862177, 6.681139817189529, 5.988138167663234, 5.419969728784706,
6.649623018532151, 5.928637396863174, 5.325243152028424, 8.232203931822767,
4.7650438439673435, 6.675780021016331, 4.792387699402283, 8.37578469582187
2, 6.760018611204423, 5.653802109461837, 5.857233882934902, 4.9033255048950
87, 6.742673714148641, 5.457092969016495, 6.779389114180992, 5.474262014346
799, 6.125036501804422, 2.949379353020319, 5.978097532177753, 5.95163363876
6549, 5.593209115975007, 6.529988616270896, 5.0978959616709965, 5.961433553
630581, 4.904964626428537, 4.875810995350886, 4.425702405369786, 5.81555102
8830583, 6.3826971708357565, 8.221440178091425, 6.396127589379638, 6.119742

476750107, 6.5777211114647205, 6.52595295477146, 6.323404887697194, 5.453825517345892, 5.025860707933149, 5.478186541330049, 5.643608287828191, 4.885158217066853, 5.120804095567418, 4.24420307658189, 5.468385520478892, 6.564535309917711, 7.014090980189069, 5.1880950453053405, 5.608182589377755, 5.8641875775077255, 5.5540797808180375, 7.720817210248421, 5.8913057779697375, 5.615238587871143, 3.8229299889727266, 5.203766831634365, 5.813715931546936, 8.291720102641996, 5.313788815512671, 4.979168960373839, 6.356803982076362, 5.389733293437454, 5.043144120084371, 5.76736145841184, 5.305310501374097, 4.222909317255669, 5.025278824437389, 3.5860779264827976, 3.816901105711529, 4.034650513761566, 3.8426141845891735, 3.1012182156422603, 3.6979134085371848, 3.8001672335331116, 2.549669099043611, 3.772570532586383, 3.5170191844048095, 3.3226121592441866, 3.7421514613051103], K Nearest Labels: [2, 1, 2]

Distances: [7.514895029037392, 7.324858320389039, 6.373575476569704, 7.696024047181606, 5.1551157186725876, 7.011046971785027, 6.8535706494966355, 6.3025458915213255, 7.27680619123035, 7.020745178185057, 7.427695176079669, 6.330271226782784, 6.372613014946612, 8.18716505142082, 8.565261315862099, 6.3244736673216035, 6.056218890447343, 5.67664121680996, 7.517437827602718, 6.8452317572477535, 7.540175779074983, 5.7961141618277345, 6.869230354618527, 6.016595964984274, 6.071414464169936, 5.513653991760539, 5.925701949179569, 5.935407273533249, 6.167815235081204, 6.74161135559066, 6.184477285075151, 6.5487806204418675, 5.902219414777602, 6.012750692262283, 5.52691414142046, 5.922610971993131, 5.863580230104656, 5.395431482377772, 6.409394081495585, 7.7589934053584, 6.774120828155278, 5.688060758595586, 7.375402384536874, 5.49951145240371, 6.468921745338113, 5.82647677094242, 7.212664846707897, 7.221695805993485, 6.0100283165993105, 6.723673732974129, 8.116241209374698, 6.969196209856378, 7.546500372299439, 6.042235222288779, 6.600266222600071, 6.355989731385279, 6.964970236813259, 6.055828159980234, 7.119370306143266, 8.337149632088598, 5.285519573725999, 4.8385988042067325, 6.142320665619803, 7.193237124682842, 5.541196084474385, 5.465079658513414, 7.978522429354956, 6.31795134155094, 5.0291277980709985, 8.601215819177916, 4.424499385644081, 6.759021588238868, 5.004102348610855, 7.270604510806664, 6.534621467237707, 6.125774063226084, 7.061445381381192, 4.828615823961861, 7.234943442982719, 5.396764514481622, 6.965317445544839, 6.001685502998193, 5.132272750611604, 3.2184256601890864, 6.237393718969437, 6.2329098544818144, 4.9677098995605125, 5.161588738649187, 4.14851415336747, 5.228298415955445, 4.843406260688186, 4.202871407159287, 4.268838456706473, 6.599314096989601, 6.695153811326261, 8.117196028670927, 5.902605217415332, 6.871825798988065, 7.045570170886475, 7.045882736956476, 6.807780832882252, 5.9942755471049685, 4.987172298973705, 5.674544597422126, 5.83623189163109, 4.438066087349265, 5.513992772186621, 4.095805035161139, 5.975241326602445, 6.276061019313846, 7.7637898500831035, 5.636327771068887, 4.389251776510695, 5.074536653910481, 4.8978231071177, 6.998167050210997, 5.895791478865721, 5.440853696527499, 5.296781740587439, 5.690972660140599, 5.654128042742856, 6.947729508957908, 4.6180055863625595, 6.278330595679815, 7.112025678018145, 5.485153687316303, 5.278848432807595, 3.798206065006447, 4.957256984033408, 4.208306331786124, 5.481076697317797, 4.424277154524212, 3.8127922236275515, 4.645075148676487, 3.8898984078277783, 3.2037298758248425, 3.32658421255091, 2.8852298613212577, 3.5459602692895738, 2.440759010807507, 2.894383703005366, 3.871793298214489, 3.1235787119247793], K Nearest Labels: [2, 2, 2]

Distances: [6.669568693741193, 7.777604532500777, 5.769625777668913, 6.293219506139642, 5.6716699050367145, 6.2496076189693275, 6.463027113697691, 6.698889111897861, 6.530928046800859, 6.220246991855021, 6.836589885782565, 6.577494508793406, 6.376159651023679, 6.958107585579458, 7.0862801745386825, 6.303374589464423, 5.533135135644998, 5.4185305385074, 6.645025395033429, 6.818888875191251, 6.735873689775334, 6.428274187930356, 7.061156955028299, 6.843479279043952, 6.529117821201455, 6.297903360107533, 6.290414916149122, 6.881884541662001, 6.177598720540936, 6.479824070126573, 5.621960407402436, 6.219975803858822, 6.280445556248626, 6.47682763743289, 6.197682209372779, 5.917088272888906, 6.396572376704915, 6.341281758268929, 7.269168921343278, 7.199617956801539, 5.877934633308736, 6.675134962012997, 6.803480467538875, 6.23611445858986, 6.325934847689246, 6.31221534517951, 6.6662129155233485, 6.347518293437103, 5.205949474995963, 5.71855168235811, 7.186506911734756, 6.525065499580151, 6.610877618745375, 5.988893834407374, 6.433521218520254,

5.551641066636889, 5.9836371078707655, 6.121919474121758, 6.16721511515831
2, 9.967969961378987, 7.821055945080455, 6.737816424896964, 7.3795506487307
1, 7.215263613676261, 7.565056191064312, 6.042649310546121, 7.4861799126420
55, 7.551505991440426, 6.944534732266875, 9.103589051650935, 6.835737931821
411, 6.721304952370178, 6.403428157171825, 7.662357539770789, 7.24279720674
5278, 8.042726812358044, 7.658086647429287, 7.480337497691879, 7.5660769732
74001, 6.662107332771347, 8.149426305788706, 6.808119137425975, 7.218800293
6091955, 5.600771669808641, 6.726339895876758, 7.296964742183079, 7.0636801
97373174, 7.485358158004062, 6.786141032359717, 7.271558216053228, 6.979697
2407977504, 6.447391137797572, 6.380841365360451, 7.535561821637603, 7.7893
97822423122, 8.112006743829452, 7.661900835446418, 7.664838737513442, 6.995
267523881511, 7.55773526923426, 8.180464962803772, 7.620250612497278, 6.547
5234934665485, 7.4326297047017515, 7.196607395518354, 6.761834302204323, 7.
003789293165882, 6.093531629775747, 6.822629688831158, 6.829207608410731,
7.786803102002389, 7.138637145971541, 7.130796393568969, 6.876087121234676,
6.746669146552875, 8.65453077675301, 7.606383630159283, 6.958883767029787,
7.444538208167123, 7.576476181646087, 6.8411952520988795, 7.34845553270246
3, 6.7461568327117645, 7.2993970103404635, 7.427241361407003, 6.98347444082
395, 5.927733571977543, 6.243772019821044, 6.348275666312473, 6.86958875561
7877, 7.033657956082839, 6.509007055924689, 6.188220881617371, 6.7673271681
58241, 5.875755765780909, 5.814196421520083, 7.10930894613875, 6.4853110410
02468, 6.043368663937297, 5.600933979829292, 6.015739582071218, 6.164358007
00046, 6.173147804954804], K Nearest Labels: [0, 0, 0]
Distances: [6.554184981859626, 6.8988438000755945, 5.420678201391228, 6.308
892336296173, 5.2541689916239855, 5.994365104646419, 5.99688055314294, 6.34
1713574558658, 6.091686426630225, 5.747503361468875, 6.639817022510796, 5.9
44240424042867, 5.7073893133524445, 6.654531685758703, 6.9442823668248925,
5.883002769458821, 5.470101605597442, 5.1533856921241465, 6.50501676562212
2, 6.31030695510257, 6.5264245466883555, 5.775005099471128, 6.5100650467662
81, 6.016276024869131, 5.951059120463133, 6.1313392859730165, 5.52509016089
6263, 6.002952703389552, 5.839275346533154, 5.917509778656104, 5.4648427323
27374, 5.869263268547323, 5.676020119297609, 6.254996254213962, 5.604419241
04578, 5.41868621071107, 5.6493316251009, 5.468633179060527, 6.355132945029
998, 6.945389046400652, 5.544325343272905, 5.889199978840099, 6.34334642544
0355, 5.463692421410598, 5.6931922378320285, 5.922372939813689, 6.372679077
6576845, 5.914436769601733, 4.908188977775481, 5.494285498332449, 6.5838811
85597341, 6.11122078808843, 6.294758109722991, 5.6299862435493635, 5.947912
404157694, 5.371537411840673, 5.752925312680722, 5.522877761094353, 5.84663
416591031, 8.673519110305211, 6.5848510976772845, 5.448106937970803, 6.4340
57282890699, 6.396983533436165, 6.515951947734395, 5.091246835644115, 6.694
358136136271, 6.458669891387263, 5.928216049362246, 8.60468470797158, 5.685
952962066551, 6.359813760998556, 5.534754198061323, 7.735811520647039, 6.43
69779437590235, 6.768849011547859, 6.620326406291789, 6.302361542129116, 6.
9114138605523205, 6.043190094615507, 7.118809376622974, 5.870651950227705,
6.176075103074676, 4.551462009470487, 5.71544476798029, 6.347870002994895,
6.024006791795141, 6.570571968894354, 5.534525583261749, 6.164623415012145,
5.675044368559919, 5.246390620678165, 5.153470773874662, 6.57775257856886,
6.7496804448562395, 7.960884597359517, 6.889583086473698, 6.58965562987131
2, 6.186240522305155, 6.816566591781687, 7.1750186628068136, 6.486123880401
46, 5.57158028798987, 6.195493750585036, 6.212335398641711, 5.7457017442661
44, 5.830768243088546, 4.964597869803787, 5.786173098682834, 5.994084448424
286, 7.195285616687702, 6.089540953605375, 6.084643418628141, 5.64156985211
1839, 5.645294818992837, 7.705913196846266, 6.4840848849934964, 6.113429245
501853, 6.085093632024215, 6.473963495770345, 5.8510460704063005, 7.1980688
30607567, 6.11328622604657, 6.60765605900797, 6.730287334985942, 5.90589587
4958942, 4.933914386325853, 5.437790822699554, 5.431719574166809, 5.6878034
52227462, 6.022022335074268, 5.368915403306709, 5.077394274420451, 5.717861
645203091, 4.368946519626535, 4.422005459756203, 5.840042888108416, 5.56686
8744028017, 4.864151902402051, 4.588759127201057, 4.841086653445074, 4.9837
636368433875, 5.22249774015095], K Nearest Labels: [2, 2, 1]
Distances: [7.172334643623881, 6.190765553510181, 6.162953144562564, 7.2897
31301657369, 5.208944495222318, 6.648418348080152, 6.371342451135352, 6.261
671058206307, 6.435585273905867, 6.250776786262243, 7.176659989430638, 5.94
8476912197553, 5.878190707048278, 7.530800958340383, 8.025185674996303, 6.2

34411139865971, 6.248831076802854, 5.780004253809289, 7.38325299969291, 5.924385401751103, 6.9215449205866655, 5.123121875999468, 6.349199536025423, 5.5811500392814155, 5.833521385408889, 6.4761536138818165, 5.400424802216838, 5.301061375055905, 6.170006582598012, 6.038968221822314, 6.44840121488028, 6.367794219753182, 5.624387120554795, 6.5119854997522415, 5.460965881019174, 5.553302277526431, 5.4554325837016036, 5.0351341539278085, 5.58644934192216, 6.7330725043636015, 6.088130368371369, 4.630998685777782, 6.56079173338363, 4.202211038721232, 5.570718868322019, 5.202295823625655, 6.348634246841048, 6.277872104539233, 5.662704595533816, 6.3531795726348514, 7.072873442201164, 6.724902145902958, 6.824819199401526, 6.055822309482931, 5.933433158270231, 6.1549581819550125, 6.304267134712915, 5.693417137378152, 6.543697273432653, 6.77564699635564, 4.976250170314892, 3.7725339702080793, 5.3051694787395425, 6.119686712215377, 5.322662448120933, 5.035356192177154, 6.6452596979591, 5.3657840500526905, 4.718350947437861, 8.175344519979106, 4.29809326848721, 6.606355335489593, 4.551320008318374, 7.9693580880369606, 5.92769432458817, 4.976537755521576, 5.79001720222776, 3.996115501452859, 6.738886354725118, 4.993084654594004, 6.121513301017306, 5.214067705185895, 5.323735780488424, 2.7885789350276617, 5.5162420778917, 5.565936676348854, 4.9245100390909435, 5.6336803192822105, 3.982967914961463, 5.0647137645683635, 4.272306409967964, 4.209997582716251, 4.0454046341459655, 5.425433530319116, 5.492753059033344, 8.198710642619048, 5.868245645499102, 5.6543673808331745, 5.990843223140848, 6.2667834305534065, 5.779641204220709, 5.125623246564576, 4.200321552802752, 4.469348866610961, 5.122975375810232, 4.2647587714460355, 4.668503080638322, 3.8740242591295933, 4.952501489817243, 5.911396448083747, 6.6579333660960005, 4.416021723980836, 4.749564956125537, 4.702104363440341, 4.470766560608805, 6.869020989212757, 5.116139018103905, 5.066897883233539, 3.3719180619413596, 4.598451105126987, 4.8151698195408175, 7.526946546638962, 4.700934203396953, 4.861315781967584, 5.998314971613159, 4.452645243252852, 4.325035889031929, 4.7683804795679885, 4.62584726458607, 3.166949021132382, 4.745306740405954, 3.3383343068088123, 3.389993044895884, 3.5411695817823543, 3.1190419268785727, 2.4659750443267496, 2.758694523579371, 3.082022326037928, 2.573419028995256, 2.797619583978494, 2.951741907514539, 3.1949937264869654, 3.4420604452090604], K Nearest Labels: [2, 2, 2]

Distances: [5.947140103624542, 5.430576826880588, 5.7131318588899624, 6.72668779186871, 4.104617717981266, 5.675072906808394, 5.256578394887542, 4.627097007100061, 5.380868818632473, 5.668997879802306, 6.186933180032532, 4.6033517428840565, 4.974279253197282, 6.64250987463927, 7.26744445909119, 4.864027907334186, 4.8745912030093175, 4.5999250165609125, 6.431311141684358, 5.006169514254687, 5.8306425111410745, 4.530134866778038, 5.299805576058476, 4.756412490392186, 4.807201237870935, 5.226684541845464, 4.747443763427606, 4.481048358466833, 4.795035332897572, 5.14610394176485, 5.588649971943044, 5.591976144048114, 4.274647712955201, 4.729462032742984, 4.008123475122823, 4.851730821643771, 4.122795419180474, 3.9848294327042617, 4.661838481065523, 5.822995783292264, 5.513125685338936, 4.388222119555942, 5.9821495397438955, 4.021101140154497, 5.335365107566018, 4.233335655327233, 5.633321497940062, 5.89844323161598, 4.7918793427611845, 5.6003964232814525, 6.91175035297545, 5.68669275354576, 6.249811578904119, 4.740413000546927, 4.978992407704578, 5.4574710680376395, 5.434205632283645, 4.904012811889525, 6.0753173309299715, 6.503600250350034, 3.743691032716414, 3.316740939602205, 4.058597715854497, 6.1880880406158925, 3.961939312471675, 4.4702538871535085, 6.765075193765765, 5.2849551098597125, 3.121829075428711, 7.087482090760653, 3.559449786148634, 5.767544056187766, 3.890759010367862, 6.902120527856801, 5.864717058367494, 4.5984998648046576, 5.380577813789386, 3.370367005429091, 5.9182471245471975, 4.577414832645289, 5.75296119719163, 4.781341087631018, 4.756305440004391, 3.0589637337960283, 5.657435695910267, 4.622877028878167, 4.1903260896472965, 5.026302490478133, 4.038202088682928, 5.083139599350444, 4.0443227280787655, 3.9443441619204602, 3.7947069109534053, 5.303745138988168, 5.462985329542986, 7.148726993039081, 4.882424726530994, 5.48098734504604, 6.278194446715708, 6.0867056764161935, 5.39697305358015, 4.616592221869114, 4.225136149384304, 4.907802813164507, 4.919302406243592, 4.240721893246958, 4.655677949809312, 3.7310321675044507, 5.24490841807133, 6.014680647375257, 7.499047942558949, 4.572251517866517, 3.766703786244301, 4.770155874836316, 4.599096398651537, 6.503593271210656, 5.230692934270452]

5, 4.429883685507792, 3.8779795767511915, 4.830411826708986, 5.393391291227569, 7.615698459210533, 4.559194138611356, 5.545824298158203, 6.8963976757503165, 4.942402104718456, 5.087420765468696, 4.902741967247549, 4.823534918765958, 4.0092450219265645, 3.7840995591798583, 2.905241027086805, 3.3507069900353783, 3.3361223177229364, 3.4519271548975743, 2.757527343408957, 3.0651835950514164, 3.3657488980814723, 2.164081060687234, 2.0257398411843592, 1.975925741998125, 2.5602851107440996, 1.8392257595945896], K Nearest Label s: [2, 2, 2]

Distances: [6.495119104124296, 6.074320231184471, 5.952308179300218, 7.377508110696913, 4.234548853904818, 6.4125778736266525, 5.956871839069922, 5.31163471294273, 6.271687508688583, 6.291358962306487, 6.871762595602136, 5.449236647311758, 5.669212613417559, 7.31515284405488, 7.978196753013459, 5.595122436183881, 5.528506968851695, 5.126932295872606, 7.173253262558639, 5.658485481153988, 6.4070086548138345, 4.7369178657612085, 5.784722232829783, 5.07352830655143, 5.102833849657546, 5.000056234133189, 5.212983228217256, 5.129278191263395, 5.223574518202401, 5.765562040436014, 6.0089682005021, 6.22160419495231, 4.75695548814563, 5.168506137638255, 4.579158486082367, 5.210920086996304, 4.664183073809221, 4.546150073317249, 5.276500826848019, 6.486529373868844, 5.87798620359352, 4.876243806847874, 6.616817619183666, 4.350459920766134, 5.655994642103639, 4.9208868404250445, 6.307430268773047, 6.489025587460878, 5.380511096067294, 6.20664305930002, 7.438431512864616, 6.267400989949016, 6.869502936175947, 5.364818591418619, 5.656243073183997, 5.919596187728723, 6.102549843760061, 5.4551689106946855, 6.708336074112314, 7.002577515517529, 3.834807740481357, 3.5245446191375027, 4.780725144887148, 6.44288486072894, 3.9323307781136907, 4.5659732363273795, 7.106584719806114, 5.371644372223589, 3.629535842424856, 7.349569719484777, 3.501873843849721, 6.069233105487584, 4.1266711775616045, 6.979752990684347, 6.049324153959136, 4.682912917629608, 5.841794666481166, 3.0804358167348287, 6.0620204959547985, 4.372827415725003, 5.773528140179351, 5.00927420162295, 4.472496997531533, 2.4402432820324016, 5.494822415292642, 4.814679502134933, 3.933366246747881, 4.502798334242567, 3.398307581613383, 4.6891794678256575, 3.632738017732066, 3.248597610077633, 3.3231632802858093, 5.3230308297763544, 5.5899438334216045, 7.235633290503954, 4.89113497603198, 5.683623770265417, 6.493125090083782, 5.993371631936962, 5.635520659477892, 4.756855449977986, 3.957422276249003, 4.747688345664214, 4.893501804914875, 3.2741231446346575, 4.449532657395425, 3.25417683428365, 4.999481751709378, 5.744941815933976, 7.311659381023407, 4.603473506045214, 3.0918531284567505, 4.374194105594198, 4.151520312605828, 6.0977925589484565, 4.972546662345299, 4.217066414674202, 3.9519389276790973, 4.56977823771698, 5.046344483375581, 7.007183240099735, 3.8875213676284694, 5.491725772370503, 6.615737982458562, 4.634750007665437, 4.793854711894792, 3.8897641236455462, 4.357893232512694, 3.514913767065985, 4.353434315634942, 3.3680593166256654, 3.4402587611804445, 3.84120894451971, 3.2540232107773184, 2.441720359883024, 2.6179736538054525, 2.4929194853740357, 2.281203247429194, 1.4865254293521637, 1.382618661323186, 2.911540543295593, 1.7537641006362057], K Nearest Labels: [2, 2, 2]

Distances: [6.214673381653758, 5.247112901069276, 5.877958120540084, 7.040175276386697, 4.750068983890191, 6.110943548285893, 5.508502521495293, 5.152123212744504, 5.653954257326412, 5.795985026985689, 6.512274447235043, 4.886104049376823, 5.258004759757588, 7.1219137833566135, 7.571962385859304, 5.569879724762146, 5.542438333684138, 5.357965643934524, 7.009747162060777, 4.97514932446312, 6.062257499691738, 4.538234304543613, 5.492183578638902, 4.854631583964869, 5.186430816094474, 6.095450190425212, 4.964923075489703, 4.354933768723997, 5.650757217380354, 5.246955395813299, 6.179292839461691, 5.802110701136666, 4.77460335801234, 5.759238621721388, 4.415530166127067, 5.06894134547106, 4.609272655285296, 4.2311573805407905, 4.605316405450005, 5.8248205107526525, 5.6598382492019805, 4.1078203363493015, 6.056702561881248, 3.735612931504699, 5.121919975990441, 4.527612882104055, 5.872661679007395, 5.825023296960991, 5.176716315576452, 5.965187399119337, 6.628571399070491, 6.012770232428038, 6.610374050690772, 5.436278480505581, 4.898025111857197, 5.605325643318288, 5.656704038717513, 5.285366837441944, 6.179048656257682, 5.793751817436779, 4.289469834012615, 3.2933496229322246, 4.26307384817758, 6.229885256380128, 4.529623839280032, 4.668481162057503, 6.559813944874483, 5.036660491997192, 3.8406314338569545, 6.65576931147959, 2.7498271035663637, 6.451584541995045, 3.9291988873630737, 7.472799191562021, 5.672

272609843366, 4.050854853708132, 5.030346749070466, 2.7534982207700605, 5.454014339672896, 4.982699758635148, 5.742752856411803, 4.6523655540715465, 5.113858792630544, 3.1562298804358426, 5.075402547212909, 4.670144257427673, 4.444198892823341, 5.430355771521383, 3.9334028717847507, 5.121018528923457, 3.8915241755443373, 3.911336675496905, 3.7449315080881753, 5.0372054166246665, 5.226609715968398, 7.074148014673804, 4.394656161518699, 5.261446845301127, 6.167067131070792, 6.288769140134892, 5.010786264769004, 4.00456504465013, 3.9879502417027166, 4.370902224514994, 4.656157218280565, 4.260108922097954, 4.197947323322137, 3.4748371510229132, 4.740756340835904, 5.834730993975158, 6.761729419812649, 4.181334610776415, 4.406256487805135, 4.809845374135524, 4.704800091467077, 6.881819795503204, 4.640882443146591, 4.270480712194779, 2.863975288796093, 4.1350315594739495, 4.967121111268368, 8.034903643745007, 4.729272116950864, 5.067938167268808, 6.353348113298191, 4.611172603651758, 4.779915162962528, 5.281593853011514, 4.6604934087965635, 3.50432294496898, 2.894417758977553, 1.712131392668472, 2.4641488163168788, 2.3610479209356945, 3.2749739415996215, 2.509947033602647, 2.5899233579948224, 3.7041799144677925, 2.2875467344333558, 2.935139211767092, 2.292614014128099, 2.01449897236371, 2.7722064948792453], K Nearest Labels: [2, 2, 2]

Distances: [6.792466131947702, 6.183112899213956, 6.274191092997838, 7.176748507779751, 5.553575147207274, 6.441046103898658, 5.855576301603624, 5.881962798798062, 5.860227893683211, 5.857281946778766, 6.756808709609209, 5.159039771854649, 5.505965318416642, 7.312788371046976, 7.737592653311715, 5.8927607416056365, 5.822036576886786, 5.5626973440800604, 6.986711816907093, 5.912373491870345, 6.61321196297492, 5.442436421005659, 6.124727182955749, 5.57312918251429, 5.679262528657092, 6.731717102050756, 5.541450671189745, 5.043685594606491, 6.086668039167159, 5.623363629366616, 6.190666426591464, 5.9673848370918945, 5.418301024333477, 6.385467783706883, 5.165474416401411, 5.3502555330305315, 5.519102144988238, 4.95623419962054, 5.428254164934645, 6.822642545319174, 6.155178536594861, 4.7861918187491606, 6.537922794555677, 4.800943932308244, 5.760394230425054, 5.218476188885194, 6.367401829269564, 6.06768711299022, 5.269066872202475, 5.85662572169485, 6.888208815497506, 6.214312931802581, 6.993330665211448, 5.926119945621845, 5.5211760658558084, 5.896257814911902, 6.028421383351908, 5.781619630660855, 6.456694342415689, 6.774958086978255, 5.323790665221139, 3.902304199498737, 4.655035952444991, 6.535432973182032, 5.492791541678214, 5.288543157501137, 6.62655114203058, 5.215869722661857, 4.85643859137975, 7.86483473490693, 4.008511067719384, 6.363021367165364, 3.926670116074584, 7.9422489053072525, 6.413907418869757, 5.164142483514864, 5.279283183572481, 4.721221031830235, 6.683643658582138, 5.79749740316401, 6.321141856937789, 5.146451036725916, 5.481990893525701, 3.4120425060100112, 5.930720258497618, 5.4998979110664825, 5.048747763652039, 5.909143780689647, 4.812740644247754, 5.489999062440165, 4.763110483676512, 4.421726726771655, 4.119887226841898, 5.962917316048428, 6.218507797015938, 8.271106935733703, 5.9592834300201165, 5.966442761303335, 6.519435592321588, 7.004004940923906, 5.895831493038334, 4.784245164255582, 5.024483440368851, 5.279791495192738, 5.2150755708244425, 4.952659448127045, 4.781321807310141, 3.821304238382116, 5.456594159923733, 6.64619417047578, 7.687775076293672, 5.044878569229382, 5.4913212912954235, 5.495130363215989, 5.244787169273406, 7.493264372122948, 5.458439534371028, 5.214688538002169, 3.979279316507986, 5.40535822161223, 5.982465544501868, 8.345954581888373, 5.632337190150463, 5.852413123926918, 7.053899838437476, 5.329690837216132, 5.1244220562654865, 5.6284880620727575, 5.1337051176363, 4.570920026217562, 4.289433448440803, 2.9235276832371726, 2.675612381259224, 3.522369443959665, 3.6335353770878056, 2.849952451151031, 3.9134646813795433, 4.3562093301861555, 2.5889675455684267, 3.5117993961857654, 3.215574646967528, 2.4073767175134524, 3.254903267775195], K Nearest Labels: [2, 2, 2]

Distances: [7.247602595029954, 6.586074852899218, 6.5812467699325286, 7.879005995535881, 5.60490063927542, 7.030801220045803, 6.28922481654237, 6.291010276828394, 6.323024514099738, 6.631907336106062, 7.181360594333805, 5.715876890821988, 6.014917450709899, 7.54673266776055, 8.257787771386248, 6.538839082312775, 6.354758904032027, 6.115198183224527, 7.726279487493834, 6.244813298103955, 7.091216448444187, 5.333595141762321, 6.392576374270857, 5.934331668776342, 5.886011523555088, 6.716613325389548, 5.993041025773822, 5.461883177095566, 6.294333680696329, 6.0265545224942985, 6.681536655119721,

6.693912622712836, 5.494957302014488, 6.688248987290577, 5.560434805415837, 5.781715877911334, 5.937128930322529, 5.389313037290087, 5.773896574694676, 6.937256943613764, 6.601091448916993, 4.677257463097927, 7.15033683882572, 4.590056219717639, 6.184067962025832, 5.254356640801421, 6.415522841528584, 6.6807445971827875, 5.715794169365098, 6.608423346047153, 7.475934225812515, 6.7133093093632015, 7.579103354027123, 6.403728697772416, 6.213488810042829, 6.523373250328177, 6.639831395216835, 6.312840668447009, 7.2616771596299605, 6.926535289767751, 5.215684538752158, 4.2014268590608905, 4.948013043590526, 6.926130595138736, 5.361302117632943, 5.5997973525325, 7.010733519600083, 5.562616019156146, 5.024117714831557, 8.087381316459746, 4.109089651081801, 6.532814124057853, 4.18992593394671, 8.151624198343164, 6.885724735970334, 5.16003204891698, 5.699566846154212, 4.301529696116531, 6.8907419946916555, 5.107513450294545, 6.365795836803626, 5.340245028405437, 5.3715969711103995, 2.154901003565824, 6.31896190030963, 5.6607836975364965, 4.764663765177167, 5.696102703955502, 4.517789327462519, 5.288508646523736, 4.328286163327266, 4.206229225749088, 3.7206923556219125, 5.675258536992069, 6.39211379295313, 8.354283112458267, 6.169186033476576, 6.042849029724888, 6.966142604136898, 6.442540284493078, 5.913461629832324, 4.852889768670657, 4.9320153539278255, 5.125857429890827, 5.215250550853183, 4.161572888252685, 4.739828568189921, 3.57841136272055, 5.432489417436143, 6.807159140151396, 7.428993242154091, 4.9123178158261664, 5.073492529124424, 5.63529499744363, 5.250052192768563, 7.07521406363396, 5.413474122139518, 5.109863802340927, 3.4062480205689885, 4.711639650890517, 6.003247956075772, 8.516340375277233, 4.758611188559767, 4.942882548269401, 6.6875811181857925, 5.205131677263887, 5.319790952636695, 5.215657531084034, 4.954956875314119, 3.6667479107636587, 4.989334056575052, 3.347036961546018, 3.345753607427214, 3.76635569102939, 3.8424269004297913, 2.8704178983803055, 2.7255518343092704, 2.842334243439452, 1.5553368056849908, 3.1239040424431077, 2.8540816155877313, 2.7984340862538897, 2.689755454995525], K Nearest Labels: [2, 1, 2]
Distances: [6.320699567894302, 6.555877517345961, 5.657814829254492, 6.6909633252885525, 4.62892001408411, 6.020410933067863, 5.981135790606708, 5.467782483911204, 6.144287354412326, 5.986472972991622, 6.403425595549166, 5.47095714395825, 5.638874801249917, 7.203341607902879, 7.343905286960295, 5.252858520525646, 5.010854566424793, 4.88126907290081, 6.478472298575096, 5.5039724430226595, 6.252801242491787, 4.955397484077523, 6.230415133554321, 5.715540346432612, 5.6964216692754155, 5.5996813772984595, 5.615483834324991, 5.5458975624966556, 5.5579513605824635, 5.928820034531012, 5.602229831418944, 5.654186666210778, 5.298755387714925, 5.518089265622419, 4.846805586379078, 5.295937346185961, 5.139157398433371, 4.94088421488408, 5.8243397247925275, 6.188013126014733, 5.780910074079505, 5.112139674353542, 6.459401615538385, 4.713003149108836, 5.813504780909801, 4.876021680481638, 6.121283544856549, 6.199014689168057, 4.946634911077412, 5.499549630320264, 6.925204855401437, 6.0326815072658855, 6.613421349736416, 5.264873657589834, 5.448283524369375, 5.314242210535564, 5.755298038899401, 5.369214039668626, 6.134890004914251, 8.094280353702173, 5.774645705258193, 4.772294051450946, 5.626602761323277, 6.739737046382015, 5.466986619191534, 5.078816668714445, 7.327865149069358, 6.259300638868601, 5.26881890647971, 7.548832171521011, 4.593218335515444, 6.324652495954278, 4.898424790957248, 6.986358272278098, 6.460649220042259, 5.780954030611844, 6.338605838418841, 4.904654591133684, 6.412337186422331, 5.347712958972739, 6.896122779279463, 5.600216703016226, 5.894813781888227, 3.809534816564882, 6.123630119750052, 5.918177848318658, 5.338279916572078, 5.9354530206060465, 5.1995845150869915, 6.276975679656725, 5.413262517243767, 4.947993554564456, 5.055885199618215, 6.220809899355874, 6.321681512014713, 7.285353139914224, 5.33387597918179, 6.535372707766582, 6.749837539053709, 6.779968238147023, 6.417022808544643, 5.891171403396228, 5.2403355737593085, 6.0933909111290685, 5.99286794314548, 5.488130917937459, 5.6588364608517985, 4.7122790542493735, 6.111935396891975, 6.433524679294164, 7.396862386430318, 5.6839590831039875, 4.980999094862003, 5.753576006511584, 5.741965392078473, 7.477451001906851, 6.280076907587387, 5.437129302845909, 5.332060888837208, 5.9264436665711635, 5.94603669822051, 7.313458092428831, 5.097083710713542, 5.956507733937307, 6.942107595223884, 5.9167670452970365, 5.620772397759465, 5.337589771829519, 5.561198483135354, 4.939807485030718, 4.636836665390001, 3.5096962042534408, 3.595288099083049, 3.740121637695257, 4.649442522312764, 3.730671848925464, 4.168859043756119, 3.8

67571138232739, 3.690022278585967, 3.4168846288560872, 3.6535779313016907, 3.8452917313989223, 3.582178772271525], K Nearest Labels: [2, 2, 2]
Distances: [6.909157210488387, 5.8648643503284985, 6.188039317079522, 7.204074940898701, 5.654062161633496, 6.449373938452969, 5.925905504170971, 5.976577687198747, 6.062901932841137, 5.8464718223741174, 6.806753844442635, 5.3082076277886125, 5.452110498286904, 7.368755613728054, 7.652503981827955, 5.823156032800964, 6.097004052053509, 5.752038595890546, 6.967698146702431, 5.781103640455152, 6.726505801469224, 5.208133413468337, 6.139913891999835, 5.430226748131709, 5.808316661224582, 6.964246590853203, 5.421155931665506, 4.960910179792296, 6.247259810683544, 5.701654897802591, 6.409223066423636, 5.964205797445537, 5.523544608018114, 6.539981122882194, 5.278963734466315, 5.472969899734493, 5.4429185523588135, 4.879806011826307, 5.287754854743898, 6.730049571396872, 6.1600506422290175, 4.6234171102300765, 6.4770280608978235, 4.594269718133255, 5.653380774823931, 5.255818424157019, 6.355932873193654, 6.088866549427715, 5.470546304497129, 5.870947896813631, 6.579278913453839, 6.249242402786141, 6.863162703740334, 5.915727775708783, 5.559291223440158, 6.022694624479719, 6.153220393791143, 5.624999787509359, 6.434785863861125, 6.467848254056457, 5.142191349861566, 3.7718728839754116, 4.873579370310154, 6.388411898945773, 5.406437043362344, 5.156825369179698, 6.524270820255443, 5.075521082127168, 5.004735027605839, 7.7958468944268065, 4.032605275730914, 6.76359271397834, 4.435651383981521, 8.238100752035631, 6.236580472011724, 4.7196713988933485, 5.272306735959557, 4.345189419199798, 6.595127735003387, 5.761737816362857, 6.191296500478054, 5.042332832267288, 5.537685331938471, 3.539083860821701, 5.760049500819694, 5.505288219866901, 5.104117177598468, 5.889983238330979, 4.554015701116332, 5.502426643712345, 4.6005570781716765, 4.415988133588419, 4.322696111961613, 5.728175932656229, 5.830527644885432, 8.310955766820333, 5.885631013485385, 5.736846357226259, 6.354254701425981, 6.783994314450388, 5.580633493382261, 4.791772288186816, 4.922374719787806, 5.061434872379301, 5.154516093576633, 5.015094796172432, 4.630732487812754, 4.1073006774753935, 5.409758218630884, 6.438663352307999, 7.351786091273276, 5.011549991636524, 5.202017585862062, 5.305043223529998, 5.215373247981806, 7.2432195693666745, 5.3218075682680395, 5.369539242488594, 3.660907384450857, 5.0915831500748565, 5.595436142220643, 8.341734171626587, 5.685636572631626, 5.6976862784333635, 6.7473325960974755, 5.1723807174067415, 5.159902659097891, 5.782843563879598, 5.343933870256749, 4.215489844573006, 4.4137690995170855, 2.9240197859116472, 3.066522531800188, 3.420628970633407, 3.500461540075343, 2.561104189151323, 3.516745397642199, 4.220557710979126, 2.69545711253783, 3.6569237671123918, 3.3090384249111353, 2.581910182177611, 3.7096908691088664], K Nearest Labels: [2, 2, 2]
Distances: [6.0489262770504935, 6.346339218710729, 5.269698508370398, 6.484274234334725, 4.249201704740477, 5.875300681446837, 5.537068124638783, 5.118520389813402, 5.863832410534007, 5.660010066201758, 6.153350715874389, 4.9810866152619555, 5.250400919896176, 7.07586207777438, 7.283137035828236, 5.1185388821639854, 4.663994165953636, 4.627596516371092, 6.43039123913262, 5.339537627459941, 6.0537493958951, 4.697017470837447, 5.763923621788351, 5.113560292769552, 5.0206302676781975, 5.020769027420942, 5.112277639607826, 5.060008393067512, 5.1415426727229026, 5.464367264881483, 5.057152465628887, 5.32312091776108, 4.9588088378831126, 5.34865805905424, 4.271894431552557, 4.742404852077228, 4.755176533770299, 4.410083878389525, 5.493439181689333, 6.250903946096872, 5.590980427998974, 4.897358044158165, 6.056887030216371, 4.634597937023602, 5.489161180561068, 4.783009886421796, 6.03966857310513, 5.889640930134552, 4.613468978209562, 5.443267637122033, 6.805938469013034, 5.5511917344152515, 6.550405005419222, 5.062549800480847, 5.124411428988916, 4.869788436293247, 5.521484099106744, 5.074990392081684, 5.796526995272947, 7.929667158031986, 5.646212420719651, 4.740730139889505, 5.276447795799734, 6.4022405313257265, 5.201543324973616, 4.648371491825622, 7.072013146578111, 5.774010319216772, 4.927488087535032, 7.38076646098514, 3.8827534150764773, 5.648964065003163, 4.047070395932643, 6.506361099016126, 5.84932018244137, 5.680775075698279, 6.032075487446603, 4.734239999144968, 6.216323393767, 5.186883893529709, 6.492852972269063, 5.096807269445995, 5.119814739866198, 3.6460897435015593, 5.300787816530089, 5.377718107039766, 4.806391576360652, 5.264789348657259, 4.577403592535893, 5.459555547709623, 4.910470813835975, 4.248462866381854, 4.403514788262531, 5.878239983753137, 6.0409741678896856, 7.122156476506158, 4.749736654270203, 6.21813737027027

1, 6.387455796590721, 6.715796092185021, 6.251021062786162, 5.287390240735648, 4.6308297572538235, 5.659627495243999, 5.40697736431227, 5.0243478814024405, 5.07366028301544, 3.8934143505333045, 5.577607516169146, 5.74226379311596, 7.283020125239695, 5.143473169483889, 4.79285992365824, 5.144594605306375, 5.030864537933356, 7.25670441539265, 5.609541119099021, 4.826877746976152, 5.158807974263894, 5.563915271203403, 5.475793363858156, 6.958339122429397, 4.6793759474295635, 5.885908615399929, 6.592737589040953, 5.398544903572032, 4.9792665421187765, 4.627728270105823, 4.756928701174291, 4.594310235345756, 4.125479421803569, 3.1495433191076194, 2.7968639577646157, 3.511537125777149, 4.252028798253949, 3.742004216030284, 4.138001383682221, 4.099913405390911, 3.7021230679586217, 3.0301930657602782, 3.0572126332542644, 3.175082421526028, 3.0301114919918217], K Nearest Labels: [2, 2, 2]
Distances: [6.621592580900693, 6.92139388331757, 5.918032826128938, 6.832322881956432, 4.493668901161201, 6.564426248799266, 6.367139112838785, 5.512091793054686, 6.745059812903451, 6.370179696897884, 6.811690391586077, 5.9985283822693365, 6.162567890970171, 8.050656029978464, 8.060725944249976, 5.687830988491877, 5.31914182828109, 5.4342654618544435, 7.132321310586742, 5.240009022758727, 6.537156270654598, 4.622371142416952, 6.35747787217557, 5.7468248869888345, 5.595011740942896, 5.368685305837641, 5.752118189754009, 5.930620591673995, 5.683956184957119, 6.2934081510703, 5.883361590675523, 6.054417499053202, 5.9919882473506005, 6.030518649490133, 4.963134992040072, 5.398600404011302, 5.298562334318267, 5.218598057581704, 6.347165334402983, 5.9544879593376345, 6.241392182790663, 5.102474528650516, 6.300849003722837, 4.601556818457896, 6.127877106044262, 4.548634025201216, 6.229933430701726, 6.524026971934588, 5.534551031118898, 6.2921216447015835, 7.641166634702288, 6.367873246220628, 6.977930255335321, 5.727946122139964, 5.690855736508485, 5.481223365055348, 6.073498013327086, 5.618741070100858, 6.288864927650963, 8.751295439548928, 6.760564241544085, 5.889509780008968, 6.250178498533706, 6.933398391248706, 6.0437734629198765, 5.711115780336428, 8.006249074269345, 6.634123091029607, 5.932602230450576, 8.036329486339598, 5.223766658845779, 6.125421632547405, 4.891712950387363, 6.611412542768848, 6.222323187657395, 6.52153905479647, 7.098530024727243, 5.171859601567854, 7.30519965666962, 5.308624377601792, 7.314794064671281, 5.930551200614259, 6.174047460427726, 4.575354962009841, 6.090280472005814, 6.260117750727565, 5.9150020294588925, 6.00246117559707, 5.488665570149441, 6.4418942118934295, 6.127068759015232, 5.581233367832614, 5.958550438750036, 6.223713822281852, 6.186296781751305, 7.77774899777407, 4.802436250912314, 7.040757399265698, 7.018956903365188, 7.32697149513994, 6.931752425206754, 6.368770790587451, 4.863627580922393, 6.454609709652301, 6.254406554818573, 5.973090067019821, 6.116018189211981, 5.296095657568413, 6.578681288404037, 6.36012092911456, 7.509273948553313, 5.437849795088014, 5.384612999299585, 6.112281267011463, 5.695744104838248, 8.165182632623383, 6.43745777173736, 5.59938542630549, 5.6876271361140756, 6.069572677940395, 5.735993880347437, 6.910478395191294, 4.37973019411867, 5.419845469201708, 6.4572777435935835, 5.897482664268334, 5.724407966544039, 5.429922747447057, 5.660614392396521, 4.668591495371939, 4.827885887746754, 3.456227633703263, 3.5792816122343747, 3.273679132625998, 5.781378577692352, 5.052770010109165, 4.288713682827143, 3.915893950733544, 4.610443586642099, 3.565389488141367, 3.848923924689981, 4.064529470162823, 3.5534595291474194], K Nearest Labels: [2, 2, 2]
Distances: [7.034649543076, 5.678650787467184, 6.489049966151427, 7.8422154671644195, 5.409523031193687, 6.953878052735678, 6.226638770860448, 5.992421292165018, 6.407926058273762, 6.311120930415545, 7.280268659174566, 5.529273212088441, 5.830046939798351, 7.848634051354448, 8.355841512575974, 6.265722597369335, 6.461885479011217, 6.105520207194653, 7.7710479028658686, 5.724762816060243, 6.782923997444256, 5.056828159490149, 6.025522013208901, 5.136858210616959, 5.5824475283909125, 6.627522447487831, 5.468018450240823, 4.840054662988803, 6.275092652374382, 5.821004128311624, 6.8080812160769035, 6.478996072979624, 5.434580468548401, 6.556160838513159, 5.102068565532283, 5.5505985655340275, 5.185123252086183, 4.706970361853557, 4.998360932939761, 6.751977321774112, 6.307159897045595, 4.673468474154575, 6.66037096081785, 4.386488863111066, 5.597156051467005, 5.448767285865637, 6.6937807896442765, 6.4113806113636, 5.936870410567089, 6.657480284725285, 7.06926637142648, 6.596086882250264, 7.294420260064675, 6.242782448147581, 5.622762390998812, 6.309954295257076, 6.437666371266818, 5.90338988648604, 6.8544576440

32209, 5.517932889804855, 4.208766147086375, 3.147148328289562, 4.450235622075518, 6.236500254842583, 4.4498187930588555, 4.87149818662932, 6.638552654347216, 4.671089675471961, 4.193979265673818, 7.085068584569532, 2.8026557039850917, 6.690331258698939, 3.9225155690639486, 7.996847965316269, 5.763382805682154, 3.7152642505899283, 4.946974226476312, 2.7102807763146424, 5.949565987437296, 5.32194640129188, 5.464790481281719, 4.747894623237811, 4.81468219512951, 3.326297045235451, 4.9926843176141835, 4.694295744526012, 4.2669164617555815, 5.126384894865108, 3.5628630282942124, 4.719206988551642, 3.5669195948816306, 3.4875172161240124, 3.4986525474136014, 5.026043630693341, 5.090701597940549, 7.791626230461506, 4.670652928864109, 5.180345338000798, 6.26539902978011, 6.484615341220692, 5.007553854286874, 3.792395141448891, 3.9809399753050143, 4.015889060285164, 4.548079020593762, 4.046957124924219, 3.8911315863825378, 3.267497532431713, 4.5928562905088075, 5.866526571720213, 7.009168070513537, 4.063729051787508, 4.389242846070635, 4.4061610603692385, 4.356424208846315, 6.616911693804053, 4.256004405753034, 4.3002422756302945, 2.5498684802844074, 4.064119717974961, 4.916053169182994, 8.16631165475208, 4.920017426257524, 5.392741638227841, 6.418475312983576, 4.3657550020677975, 4.677816033500467, 5.115670260570284, 4.517163973533736, 3.3410712836500887, 3.299060451784104, 1.9745756521396793, 2.3097769175562552, 2.676753272329495, 3.0053909691016973, 2.3950807245951298, 2.539392916771117, 3.864099425732598, 2.5240019182185227, 3.0901769787050335, 2.3201362863116555, 2.074910649164104, 2.9993692329363735], K Nearest Labels: [2, 2, 2]

Distances: [7.609047130255712, 6.434186709622531, 7.067098923394877, 7.991604145621479, 6.255262100653699, 7.20860697659566, 6.668322626495195, 6.687760796898723, 6.70718976740672, 6.53279913230486, 7.774514739005912, 6.0518511167566835, 6.251305995384567, 8.040211066197243, 8.542466005887352, 6.652329179574109, 6.865018297054902, 6.394264946296697, 7.812702836990767, 6.602196749696351, 7.365994655124698, 6.134366366847555, 6.802716167170156, 6.045853992044346, 6.407884946269604, 7.438927182573666, 6.00291237692436, 5.626447583096526, 6.886744149680314, 6.382465196398459, 7.207324708159537, 6.857661697036277, 6.157920378676717, 7.07694346076569, 5.969264606184057, 6.161215342392718, 5.957857818028642, 5.548587916379864, 5.869469757434099, 7.559956218784188, 6.750071978552821, 5.528256776378998, 7.157475421822369, 5.356895474892732, 6.241050187699879, 6.122341531723552, 7.265738090953927, 6.7676405758610665, 6.279851457547261, 6.697484945750315, 7.442150002487522, 7.120196913230732, 7.525154103750836, 6.663513647598705, 6.233214367235983, 6.845173652223047, 6.813413531077801, 6.392489048255829, 7.165695243254228, 6.356987597492602, 4.95045517566495, 3.4455917101363367, 5.1134400848164985, 6.842762181698024, 5.588383960596574, 5.637458192694219, 6.928793532304086, 5.3085079759390785, 4.843414544267341, 8.361172734617867, 4.287259254188691, 7.284446445673901, 4.66655672210945, 8.890528842034158, 6.754615986052389, 4.973368019919251, 5.516718718907669, 4.565167370559873, 7.018775892264925, 6.408567761161141, 6.420652151640918, 5.6438920435139615, 5.780717750737485, 3.8304353204364436, 6.062029819394673, 5.793439668214139, 5.383971073925505, 6.214267376170527, 4.752255491252333, 5.6289789205736716, 4.67320505993617, 4.459961725701874, 4.184349615263725, 6.273000926856698, 6.27835861179427, 8.919197165826388, 6.3657219015045206, 6.097294930785646, 6.789363633016478, 7.41250349483625, 6.120166179252959, 4.991661917969648, 5.191068405324674, 5.1435768894266625, 5.523301633599315, 4.893668106372866, 4.8800282397679196, 4.122861543311364, 5.502230224539283, 6.893065663018034, 8.035167878419031, 5.2781519250520645, 5.450202268907507, 5.333658251471256, 5.19264395542745, 7.574719011583578, 5.508121856282225, 5.605875932062645, 3.6244335943917574, 5.570829777907297, 6.021267501562619, 8.64832444251774, 6.18665437246745, 6.432255389121238, 7.43967645659004, 5.3425750236432075, 5.222095224529161, 5.878930041643055, 5.471909049065352, 4.694818576584354, 4.536026342885886, 3.3121398003525786, 3.143441111619581, 4.0425837380838106, 3.044720752588617, 2.2165397901051946, 3.813847583662852, 4.597502645895163, 2.7652007258223743, 3.7995350005323547, 3.2575011980959805, 2.764078304814713, 3.7709716819459804], K Nearest Labels: [2, 2, 2]

Distances: [6.360782871374365, 5.971546644058431, 5.879301166022945, 6.597223771266317, 5.220928154780963, 5.9074649929754965, 5.38336191741574, 5.541889413832487, 5.4371690847583904, 5.523148634593326, 6.495756512802125, 4.966175245795013, 5.194065160779758, 6.720877545239363, 7.181737608143602, 5.

53967127160281, 5.359122917723611, 5.176901193679439, 6.552856967807907, 5.596281851916995, 6.29232499280548, 5.301242686689287, 5.9084044682767285, 5.444548268579547, 5.50744565739598, 6.440029699233509, 5.102182296046264, 4.998348226966375, 5.712340949549118, 5.3436030075404215, 5.872787688133283, 5.7313021588720385, 5.185831646768291, 6.029381582083267, 4.926531991399109, 5.196389371150747, 5.083391537465058, 4.787623194916935, 5.428925961311417, 6.377456718446978, 5.743579169754733, 4.851676117526633, 6.062509757310088, 4.670693053854602, 5.56341760311818, 4.956049612285317, 6.004428752616467, 5.750496219550724, 4.89143908542532, 5.527454896549616, 6.647450848716904, 5.898710623274635, 6.456497498467628, 5.442491537594223, 5.272022251033735, 5.594107977017225, 5.5851755147601985, 5.365514907695325, 5.981581991623767, 7.116386510498936, 5.434068838211586, 4.1402851983247455, 4.942878299829717, 6.550047656351767, 5.7043756350223145, 5.142460980355487, 6.608562472892068, 5.617560799866912, 4.701149558973182, 8.063299374641884, 4.40921433501708, 6.335823398820019, 4.3320488929011365, 7.9997750793726645, 6.430322204851812, 5.630923142806562, 5.592226454504219, 5.04472012323409, 6.6464658642236225, 5.891926448228407, 6.629839457549877, 5.283177581833049, 5.777875860656741, 3.6563910591753883, 5.792911672150139, 5.618594295249729, 5.44121599999514, 6.277788734809686, 5.049450298534638, 5.773474762639859, 4.957722431006014, 4.725469430894552, 4.348344680698412, 6.102959877816933, 6.368150695873443, 8.159074518052762, 6.118993778904917, 6.10579863511179, 6.4534333064737766, 7.011567663461238, 6.300569569621389, 5.215476330737016, 5.0642570234165065, 5.604764904758727, 5.508241625744278, 5.162930093478193, 5.072708953951933, 4.1442370942545335, 5.58462961946794, 6.490729349565454, 7.725410629580114, 5.299609031524055, 5.534178324668521, 5.621109418024481, 5.359794793942191, 7.793942283216683, 5.834435123747291, 5.516908677786756, 4.309294214363064, 5.703523639752081, 5.9721349605117995, 8.209139919756637, 5.8066843390366225, 6.006169592084826, 7.050785904102189, 5.524633821525401, 5.091233109093976, 5.798695631953034, 5.343855682440318, 4.866941577557889, 4.4496963258499544, 3.3818506463664777, 3.3496861394639983, 4.015058081529355, 3.5535275918491602, 3.030708881499351, 4.268070727203652, 4.6463401074175925, 2.88473985880491, 3.640483158664341, 3.2633524508856904, 2.7305593738957925, 3.4642685974263077], K Nearest Labels: [2, 2, 2] Distances: [7.226416655642054, 6.7122491472694605, 6.545884276426182, 7.501526015649091, 5.600390278947474, 6.813117209436469, 6.342853746751353, 6.153403193076454, 6.554462693113605, 6.782001463249569, 7.218450788642432, 6.083125845271644, 6.191202380514348, 7.622663351988093, 8.083595838358075, 6.435498390938057, 6.24240752935663, 6.15144941181012, 7.517112669404329, 6.0276271322241195, 7.217441479694882, 5.284611496629449, 6.640249714506189, 6.258176557785947, 6.284730273555629, 6.7972957137839956, 5.962208802128374, 5.813641466948004, 6.436843024459959, 6.3487468249378525, 6.855235335902802, 6.707929156364932, 5.905694093705323, 6.64519506973428, 5.7491248318173405, 6.1186595674208535, 5.963211706278383, 5.677491684018775, 6.257807353100473, 6.47853166568609, 6.669832873182856, 4.764289979077311, 6.990971846546869, 4.48882605761612, 6.397125605955766, 4.826334668836098, 6.233272903034393, 6.821679897709994, 5.8972135603017914, 6.6236872470630646, 7.651125497496826, 6.911740041852843, 7.324480592462516, 6.20498573979792, 6.2869209018309515, 6.597535083466479, 6.629312326807008, 6.171534999255859, 7.105312864480198, 7.792666076631953, 5.960264890775566, 5.077629913650724, 5.9511096753782, 7.531331685420112, 6.252833821863213, 6.155597343231048, 7.72947168363643, 6.58506146061836, 5.54526250990315, 8.6481842047785, 5.088416916393658, 7.267224890499642, 5.3521593332105635, 8.438713832673105, 7.270058559441204, 6.114501605949142, 6.794932931204236, 4.870861008365206, 7.408657502169314, 5.514554183718433, 7.421234620014216, 6.086293659612625, 6.475740488884511, 3.128481614568302, 6.867771398158081, 6.555260196925845, 5.970310072698962, 6.663633554538431, 5.330500135474061, 6.373179323009036, 5.426003185430885, 5.417122481979225, 5.08393749790553, 6.348006170315392, 6.8906782337769314, 8.575240365021097, 6.49228391010014, 6.881384335790506, 7.430429878212796, 7.015680318204286, 6.699668356638243, 6.046769135268392, 5.3862141527499565, 6.092154678007868, 6.1346573572244125, 5.1510827459384245, 5.784931580698498, 4.904916573978472, 6.379921137182062, 7.201051358188109, 7.628269575775411, 5.6833803683293995, 5.434954462368393, 6.493973113360817, 6.035789210164914, 8.060937951254868, 6.441490130185376, 6.098395089670187, 4.183826501661119, 5.434454082336995, 6.255939363821268, 8.534733424

806541, 5.075841935864006, 4.994383861183571, 6.854369595198069, 5.92679052
2450363, 5.97294601151135, 5.981967004100114, 5.983510340252095, 4.08728899
1214859, 5.512234749577935, 3.8781912429691467, 4.237234497843354, 4.086970
88911572, 4.676062677515393, 3.523793616262957, 2.858983478479179, 2.789534
020645157, 2.581652731047288, 3.615617480588658, 3.409489477791011, 3.52194
94435438725, 3.4191288395278225], K Nearest Labels: [2, 2, 2]
Distances: [6.296512701263164, 6.108392594822019, 5.464903890402558, 6.6475
826280380295, 4.439879698036375, 5.954626534877352, 5.6361645152425774, 5.3
07446783706879, 5.800050229107191, 5.844873139017373, 6.249203690110622, 5.
105621862386589, 5.303604987219158, 7.026267893477933, 7.355569742606556,
5.438491611841283, 5.06189992481369, 4.957663164048384, 6.660736832986283,
5.274173692667604, 6.222516165376954, 4.532526889672525, 5.814900054433319,
5.24332308487958, 5.257560812408279, 5.571615448184986, 5.142667507785249,
4.854716355976226, 5.435585140571202, 5.472074899781615, 5.506353734644061,
5.548362021830176, 4.925011968419827, 5.629126454111293, 4.533620261268002,
4.950156917138603, 4.965611205960696, 4.4856245452750825, 5.29754153586701
9, 6.014600873426446, 5.661717565049655, 4.250731880799302, 6.1681749712050
74, 3.9611383644638463, 5.364059761190263, 4.393317466235393, 5.71769091131
63745, 5.883409749545934, 4.765064450619949, 5.667163830538082, 6.764153343
049794, 5.890762877762443, 6.551684403451439, 5.257596637134167, 5.23086722
7218442, 5.213620854072069, 5.63590169358313, 5.199729102217341, 6.00557965
7825913, 7.29991878378856, 5.2864786741455045, 4.2936996228980995, 5.055711
289625566, 6.355708050790107, 5.198525817424851, 4.815664045151327, 6.88294
1263545143, 5.680058760381083, 4.6818850730262875, 7.394778256243907, 3.712
3762407404826, 6.023618683854852, 4.1247778752631055, 6.947935463011272, 5.
882331986780668, 5.253357809869725, 5.843522247340164, 4.1166889767184225,
6.152340050113658, 4.720686613291852, 6.378688875920083, 5.02668512852317,
5.248212424360284, 2.7380806584269735, 5.530149404265467, 5.40993377200951
3, 4.727314167071178, 5.469895648572442, 4.333803421346184, 5.3550640816842
46, 4.567509380162911, 4.274134834817304, 4.1520832998542145, 5.52080165889
544, 5.823086542012552, 7.218924786696055, 4.993425796101896, 5.92959642643
9848, 6.2802110831365985, 6.28657459934309, 5.821974689654188, 5.0462806990
85868, 4.399761778369965, 5.10594803497881, 5.18284845228139, 4.62880598013
9269, 4.881927446878209, 3.7683619878658186, 5.301178407780241, 5.913901638
774255, 6.710052372744755, 4.705846645831077, 4.725227582177178, 5.17840399
4588324, 4.998706881585867, 7.09773253525716, 5.3790754804005845, 4.7769362
78967295, 4.149174441650946, 4.8135869226323695, 5.235093010789797, 7.44124
92082347965, 4.314868403410592, 4.899478109309274, 6.178391727286864, 5.041
618375478813, 4.849006774506628, 4.7446484689671005, 4.684467402932626, 3.6
645261675346332, 4.1060348363600125, 2.7365539401731493, 2.774957907199878,
2.90331538639561, 3.8332913632176395, 3.046745593148786, 2.926476686353353,
2.978901584799463, 2.6285277786915264, 2.58975733335468, 2.74385566259653,
2.8409648578016147, 2.745809896652242], K Nearest Labels: [2, 2, 2]
Distances: [6.490941295140659, 6.396899686036748, 6.253677232699338, 6.8888
548370708325, 5.492767226734038, 6.250459549364805, 6.224681775613276, 5.76
14030072640325, 6.316188000913498, 6.274938527432738, 6.77396932890511, 5.8
4935272796254, 6.074200520569642, 7.584539016543609, 7.578532053278531, 5.9
50070354811825, 5.690328667499134, 5.642412872921058, 6.9260153556489925,
5.658918636356604, 6.445885232055818, 5.450827389637339, 6.530301392670599,
6.189903536235778, 6.415657847428341, 6.765882057393647, 5.991269714123200
5, 5.574599061637091, 6.472799763305785, 6.12346810043363, 6.56738039141324
1, 6.022894445453823, 5.770901416217197, 6.126793915427951, 5.4580367634420
26, 5.875249987911641, 5.765149721943682, 5.507913352673244, 5.943288702584
335, 6.074955571659625, 5.9703934099855385, 5.068568447351381, 6.7337875815
85994, 4.643217705058292, 5.789551479349521, 4.937971539724147, 6.257236906
649115, 6.276333232540005, 5.500929759137813, 5.866245657239379, 6.97239236
1651269, 6.704171690085463, 6.808733824533097, 5.773432190887706, 5.4258886
22845226, 5.775524930453297, 5.893119787547293, 5.9108772420474525, 6.42276
2175136205, 7.518940381831929, 6.031380929092942, 4.749906346350962, 5.8586
50618080741, 7.3219579510064134, 6.295539642997374, 5.864735903991473, 7.46
9774101291914, 6.572690414070545, 5.4609027080049515, 7.24912473792644, 4.6
16801650210741, 7.578638044791634, 5.566814218449372, 7.817677517243341, 6.
80744745861908, 5.789795534338999, 6.440276637425934, 4.751624042717708, 6.
105412443547413, 6.013985610871884, 7.39792766551223, 6.070401306120221, 6.

891393083111413, 4.256965075518703, 6.527685545049257, 6.385528485415903, 6.1617316667622575, 7.0084826228291295, 5.764882274134575, 6.94080985006305 1, 5.872150990487895, 5.662870805916637, 5.5503871755262235, 6.596746666312 426, 6.7002260051306015, 7.229350203986756, 5.65332775258962, 6.81380994199 0302, 7.126817520795146, 7.3417176194996125, 6.359557260291387, 5.934759314 629777, 5.595524122858517, 6.124916317611402, 6.215934313051728, 5.81612815 710858, 5.957436092369711, 5.241348482341562, 6.185758607390341, 7.07264364 061954, 7.121419174682495, 5.975957962644352, 5.886753713009906, 6.50779902 4871188, 6.438557439460885, 8.274105716029528, 6.432434291768234, 5.8584844 87467075, 4.916992174232873, 5.839320453585832, 6.200270723234129, 8.389039 368690437, 5.869516873079475, 5.925336320373067, 7.222844007667576, 6.20983 8656451532, 6.031957572923337, 6.450777810514194, 6.188799509733135, 5.1796 64792532314, 4.436700380349804, 3.5350722684300537, 3.9270242570000966, 3.7 64141154356727, 4.727561230321529, 3.525494848001386, 4.206955341332632, 4. 373543230669086, 3.646167619823837, 4.209306216559985, 4.171967450278835, 3.8765246097850636, 4.425499648123032], K Nearest Labels: [2, 2, 2]
Distances: [6.078780909740053, 6.094927142155376, 5.851793305372056, 6.6266 37281733679, 4.949587706284372, 5.817360529421111, 5.827336235383933, 5.370 791168628756, 5.970150976378938, 5.935317489643266, 6.560641445877666, 5.43 98156496010435, 5.665186900113845, 7.100074707138455, 7.272789974821001, 5. 521903718765568, 5.1930429636002895, 4.998679608626712, 6.564744085830855, 5.652930686601154, 6.0984829120304935, 5.443456927958518, 6.15198355158130 6, 5.703780207438631, 5.941497508270779, 6.011251959647799, 5.4544602709228 8, 5.2012672102022615, 5.903598982537085, 5.7517855088211105, 6.03431216519 7208, 5.70675973084781, 5.155058352156647, 5.35687990584243, 4.922698938984 115, 5.473569143117912, 5.118151740656526, 4.965275632161527, 5.52393339796 1674, 6.230149131753867, 5.482095360960229, 5.250168409562791, 6.4690485849 82585, 4.746604773966675, 5.4072640455513845, 5.099288780893079, 6.28537883 0413899, 6.018248658692429, 5.085504845717036, 5.524450766675811, 6.7853281 08961922, 6.315572098690333, 6.424040703169442, 5.206121057358434, 5.122483 850659587, 5.4082955228159895, 5.536626502940272, 5.456124348753845, 6.0654 43832402707, 7.25333783689652, 5.100114794859518, 3.9895347490731736, 5.444 57596751396, 6.939802667222613, 5.579641553504671, 5.099391146244372, 7.128 5825877671645, 6.2010530982569465, 4.468369772785744, 6.962383314959926, 3. 9360703180444645, 7.169258835334196, 5.192403075492192, 7.426713065149328, 6.3837502681465415, 5.444637739295309, 6.096441762515983, 4.37499288930907 1, 5.44492176265844, 5.823417986042083, 6.890957880995297, 5.70366712114895 25, 6.178011828708315, 3.944489497821981, 5.866250318888957, 5.771096182235 144, 5.507795144849113, 6.393932259435451, 5.077180469543082, 6.28700519945 2827, 5.128726056400173, 4.830661745841507, 4.667883874817535, 6.4113107429 27401, 6.4459544471900045, 6.69659932450879, 5.320182497117174, 6.387415805 499975, 6.689069057266091, 7.016563734874416, 6.178048835879634, 5.49835806 90944915, 5.171639910248198, 5.654906071807454, 5.806307120954099, 5.111695 656103417, 5.457025903741796, 4.508993054119795, 5.564640297302054, 6.42178 5801408043, 7.144056788981903, 5.740562749517902, 5.157436611741463, 5.6444 68591240462, 5.73226029984252, 7.64164527803595, 5.963837470222347, 5.29322 6109991752, 4.878287293684821, 5.687767883586469, 5.791097592246114, 7.8086 07137548584, 5.74143545151112, 6.3974948966991745, 7.295906147411421, 5.792 55731797201, 5.423266984057281, 5.657490810645208, 5.55040904678907, 5.1605 97852376746, 3.9840746197561123, 3.618882385416495, 3.734282967816205, 4.12 4160402523066, 3.6473752535223856, 2.713015988009316, 4.255757699120574, 4. 487736188726666, 3.426747776472533, 3.623157048259228, 3.513774071102839, 3.5986425261942947, 4.0109385859628075], K Nearest Labels: [2, 2, 2]
Distances: [7.18442107269337, 7.367719216855416, 6.353885028630744, 7.27519 6727896956, 5.135208860676511, 6.761643051205151, 6.53466797524412, 6.24851 040746794, 6.709952523723941, 6.762192635754292, 7.31155757642345, 6.297949 827265422, 6.3573711559628805, 7.624652124584073, 8.135961664188741, 6.3018 802348201035, 5.790210635489321, 5.649953710362506, 7.367576763570939, 6.35 0743944771173, 7.170443989539404, 5.617801647968205, 6.8695656382397505, 6. 41529954693958, 6.165142945134152, 5.932641686687873, 6.017736757131818, 6. 309366219905988, 6.051049451098003, 6.558432052817363, 6.269692901213119, 6.670843717599327, 5.994810405154536, 6.291090960379123, 5.683681320018885, 5.961248515036282, 5.850497734310255, 5.7588196726266165, 6.734763127874014 5, 6.88403204572234, 6.521842331815737, 5.584594583493657, 7.00522563140032

5, 5.131045482645882, 6.557636603512074, 5.269171743223631, 6.584973083096563, 6.897773499569467, 5.664933860137763, 6.496441998298273, 7.980699806883958, 6.859859523381931, 7.252703655479877, 6.048824454510848, 6.454678229744029, 6.274992169253137, 6.521364248360239, 6.106763621285465, 6.904079533712842, 8.799157343389219, 6.278683668451759, 5.375562406057369, 6.329146155314135, 7.408980637469532, 6.27819424683284, 5.923506095253084, 7.934585869804384, 6.900095736552468, 5.579990645488233, 9.07974461817636, 5.502163641545862, 6.6071788927459085, 5.222939880142909, 7.835554565555825, 7.230783245265667, 6.842681326176844, 7.2030400368006315, 5.658950142844716, 7.696399192122451, 5.6119073029781035, 7.606895981930667, 6.342670923791257, 6.273265521325951, 3.410042328987372, 6.73170352999161, 6.6825868403161435, 5.9610374308388545, 6.437183532434583, 5.4789823236288075, 6.349466811766673, 5.707519151657668, 5.320748143982422, 5.091687409516176, 6.765156503007047, 7.143003061403029, 8.555179654847365, 6.557509259887871, 7.238055047778105, 7.348259684733315, 7.247256763752016, 7.438435893070552, 6.5981629640585115, 5.453256273078669, 6.500129975301274, 6.500355739584722, 5.2692336638656405, 6.150716750197368, 4.848606755181623, 6.5155802270183, 6.9518262257845524, 8.024879721181126, 5.954504686808437, 5.4246491514278095, 6.222515535808443, 5.774257108084506, 8.122037516568426, 6.800419881614593, 6.107819126042408, 5.352493307104278, 6.292223833898591, 6.379068168208667, 7.540660513379065, 4.986403402724743, 5.813020818370316, 7.107181411629485, 6.099286853602044, 5.652130317364886, 5.193867016945064, 5.677773582516674, 4.8142728040077545, 5.74944400661723, 4.393213404698921, 4.214566811012192, 4.674037453336736, 4.70097877193051, 3.938054819352002, 4.002209871162999, 3.2496305089060136, 3.4448252466632705, 3.267106940126743, 3.4695433131634306, 4.0671384536964785, 3.257671079984141], K Nearest Labels: [2, 2, 2]
Manual Cross-Validation Accuracy: 0.9158730158730158

Model Training & Evaluation

Here we will train the kNN model. After training the kNN model, we evaluate its performance on the test data. This provides an understanding of the model's effectiveness in predicting wine quality.

In [66]: *# Code to training of my model and make predictions*

```
knn = KNN(k=3)
knn.fit(X_train, y_train)
predictions = knn.predict(X_test)
```

Distances: [6.423599613977766, 5.552511993140562, 5.848451782428699, 7.074398185320633, 4.646121938519193, 6.210332211637667, 5.505582787452961, 5.3561636535469646, 5.537921270946161, 5.924172528874598, 6.381207001591936, 5.058851612332711, 5.250139348721837, 6.741592949382828, 7.498339084925541, 5.702150880550055, 5.676665111519022, 5.440260062587799, 7.041934274749576, 5.107076706372909, 6.211172808339841, 4.214405624599848, 5.408257636561284, 5.018609584785833, 4.969909625061884, 6.020574774160037, 5.069258498266709, 4.696454614433397, 5.295887637732474, 5.2191557661910695, 6.064749926847568, 6.061820025303617, 4.646325688934013, 5.871678054321935, 4.714327947323955, 5.026583903662477, 4.936976286302864, 4.537130619733794, 4.897614011944089, 5.737295704118886, 5.804182866214889, 3.665270407223678, 6.148263484428402, 3.3852937246724943, 5.37820784340399, 4.101100801821252, 5.26894734969778, 5.926306038465585, 5.084918565012777, 6.073171051468307, 6.86109276220161, 5.982781762350476, 6.591696698770034, 5.542352809557029, 5.464517224523076, 5.88711805989628, 5.825677842499567, 5.395017582517359, 6.486003319408363, 6.449963226889275, 4.712735036606155, 4.074861258791235, 4.365486045666243, 6.051342230795354, 4.662167603156951, 4.955417105938228, 6.423001095634594, 5.13704216263936, 4.351017208231231, 7.539991871349513, 4.17354328450229, 5.7770460768693646, 3.9371005023194634, 7.433712246456968, 6.00143052858155, 4.672873561400671, 5.342317155016555, 3.529748033602527, 6.467036377813678, 3.953433555699038, 5.6525781336984116, 4.625050787260064, 4.9445866384495245, 2.394046267986272, 5.7916231564834675, 4.883430509127575, 4.374599703055314, 5.233572754905534, 4.043472883525426, 4.859686662604258, 3.996526249993426, 4.2002106343992756, 3.917113211797638, 4.638407815240498, 5.319168951566671, 7.746280643025407, 5.625688331105266, 5.227186932081599, 6.157051127128946, 5.455329981041337, 5.153162785643109, 4.547467308435433, 4.027903649347503, 4.530555691126147, 4.61411369716414, 3.969745093530473, 4.383885009695766, 3.7486474246882464, 4.99087852115331, 6.054012245335487, 6.750774094254885, 4.020264354092918, 4.430532952120524, 5.125196858088389, 4.632103641139691, 6.415602064565145, 4.944034382391975, 4.55337649688559, 3.0138634108941416, 3.888574775355793, 5.122021866889504, 7.993155195529973, 3.9671855024003064, 3.892204720275645, 5.846547342972498, 4.464325702001579, 4.872651595649159, 5.0906409032546796, 4.609811453964345, 2.8453922742441113, 4.799024772062735, 3.345908003077838, 3.9228385212240293, 3.4564474227544184, 4.074379075250968, 3.438132627370557, 2.656814086848259, 2.8021525547783486, 1.9755511721134609, 2.7625181821755005, 2.8033979196235954, 2.9773448148745745, 2.6416606091404486], K Nearest Labels: [2, 1, 2]

Distances: [6.228894835854567, 5.368941909784647, 5.859301658603715, 6.849275414369749, 5.303685210635077, 6.169733275066315, 5.773279133601071, 5.392407244587482, 6.0357839978509125, 5.713612530017281, 6.404468754030283, 5.2208836261390665, 5.474058119256814, 7.53532847630235, 7.453848639975408, 5.633152426409268, 5.785763107129137, 5.6669307997794185, 6.880069493955066, 4.99227436271284, 6.084743413205256, 4.649690469735421, 5.754063570901082, 5.1300381941457855, 5.668567013276984, 6.711408882276852, 5.35306798226075, 4.606008976330153, 6.195166524622767, 5.468066788455941, 6.369176151329789, 5.5715998084497835, 5.359682945973469, 6.19657106508522, 4.863256777834123, 5.245410251388141, 5.207908055231815, 4.680627838913654, 4.926237639546584, 5.815095835484239, 5.703441748813866, 4.243586554374494, 6.1276204294834695, 4.018831877113506, 5.0706120095210725, 4.734164423396522, 5.986697915836685, 5.751666412493638, 5.37263554542779, 5.742877770459107, 6.225754836230515, 6.112979205715242, 6.596859432154721, 5.650122401043442, 4.811494229034394, 5.437375051651576, 5.680144437264513, 5.434151460202405, 6.050129768534999, 6.2501083544751035, 5.467869682605533, 4.242824242743934, 5.030041422468076, 6.388956943879644, 5.478466229609753, 5.14365391737407, 6.649382695849649, 5.280258968131856, 5.147904144013198, 6.304437455008295, 3.4900655623343955, 7.076522121442697, 4.745685822129916, 7.504959552262384, 5.634666424572274, 4.405070749596164, 5.362763594629933, 3.5364793606088085, 5.445714145851682, 5.547915352424863, 6.207391672378068, 4.949487406258862, 5.929995287563031, 4.295758778982162, 5.332375737841326, 5.291188566654735, 5.29121913642709, 6.040598729690752, 4.72092785268856, 5.899712857652164, 4.965521070204588, 4.806629976060724, 5.006533249708673, 5.430499617173904, 5.3691881722451775, 6.945500579665094, 4.534411243751671, 5.668362828805994, 6.26537816134518, 6.733026164410565, 5.022461826143789, 4.593915525786295, 4.60157301882769, 4.949805838806348, 5.025975278244099, 5.3270051209825455,

4.735069874942573, 4.54777848679602, 5.227588611755061, 6.082349341791614, 6.386070790975153, 4.851029521600177, 5.3369665477686565, 5.517581637616908 5, 5.529669011894804, 7.384208935272362, 5.0343691551901175, 4.905666774621 047, 3.944208421431835, 4.608056960224624, 5.079836530452644, 8.19862244537 0537, 5.432333119174847, 5.354746273896245, 6.319370770879274, 5.1461175846 80493, 5.3334591875487165, 6.121987284735657, 5.425241128035038, 4.24128684 7617025, 3.485786629236191, 2.5181980077355735, 3.182332544355828, 2.701525 8793035466, 4.389051263871324, 3.48786289135145, 3.8044330606602066, 4.6628 71884635664, 3.708753874692164, 4.129168026858666, 3.8356889655858155, 3.07 8808524999743, 4.354305231607461], K Nearest Labels: [2, 2, 2]

Distances: [6.422740161007204, 5.637299686681096, 5.9026038955721125, 7.093 862119791557, 5.080917555594546, 6.248081628828373, 5.634028430550793, 5.48 6853443228483, 5.717606284789884, 6.007902034631019, 6.442568120561684, 5.0 15221040921495, 5.390409770632941, 7.1770048686785755, 7.628634523875364, 6.023834712395477, 5.69399099445516, 5.579692534334652, 7.1771373309729105, 5.460100066447647, 6.322207312013954, 4.849341540866196, 5.665715121695708, 5.155879492133766, 5.3864459811910645, 6.3396443508753455, 5.23567484713072 95, 4.344358108109697, 5.94599124850842, 5.281487627499773, 6.1346019554160 38, 5.82778105149909, 4.864795821655343, 6.064762185913065, 4.7266153171765 77, 5.149094322192228, 5.270004885000405, 4.537338094320919, 4.812149719819 576, 6.201471492852154, 5.826576033569022, 3.966223244748784, 6.35873274873 7379, 3.8804279078862676, 5.143776891038851, 4.665438772441624, 5.851919675 291324, 5.8605634706138385, 5.155417907070992, 6.11099150873802, 6.69872369 6732696, 6.176488118782091, 6.8541714151018365, 5.716691252241683, 5.158780 325288571, 5.607173021614185, 5.818392109427609, 5.60623615352053, 6.337339 292448666, 5.975950825041231, 4.797110391073303, 3.8112873368653, 4.4823785 54528765, 6.3835083329529985, 5.150114948149367, 5.0012156247250035, 6.5266 64780882611, 5.201417719991337, 4.276394813745549, 6.7356588862049795, 2.70 33948490181063, 6.538359796581873, 3.946472626242225, 7.393463483406913, 5. 7071753523926985, 4.494666148419371, 5.1974733011727245, 3.296505410031671, 5.494085934182952, 4.9101898660973635, 5.938325509058683, 4.766001965341418 5, 5.160748219259204, 2.84920595931222, 5.298651411656616, 4.99476131279987 4, 4.4945171873987775, 5.5760419386453846, 4.017190112389622, 4.94568543845 5444, 4.001253240637812, 4.027532625926337, 3.6031785828331735, 5.185625979 493386, 5.64077275344026, 6.996014076209136, 4.895109633268212, 5.416673671 476595, 6.198954297830671, 6.225787777158378, 5.056674481734824, 4.00915554 5064462, 4.1984439383826215, 4.2199409485470785, 4.534036377001946, 4.17715 04315067745, 4.266004152688325, 3.298368827024012, 4.583555092335783, 5.946 253152038494, 6.31281171634181, 4.222967181115576, 5.057247786365121, 5.075 7526534630335, 4.906095912886096, 6.934621586660143, 4.536234852837316, 4.3 14788236457197, 3.043531461538882, 3.853905983091682, 5.0674634496573745, 8.31487123930025, 4.683458486436066, 4.732265611595277, 6.1798024383373225, 4.626668527191578, 4.734408860718612, 5.1700710944902175, 4.42706003973259 5, 3.3454633900822177, 3.5378700562495116, 2.589296477901337, 2.77381749694 3936, 2.869113428683517, 3.3796228433672253, 2.7850022102127014, 2.74776605 03035826, 3.6783424185498115, 2.33749367966664, 3.1649787721906137, 2.88130 72973905918, 2.4252615538112328, 3.2111150940903794], K Nearest Labels: [2, 2, 2]

Distances: [8.305978058963221, 7.121341291783203, 7.736455924215873, 8.8654 43017364802, 6.818514178400635, 8.07127648405605, 7.155770848869466, 7.2742 82399045359, 7.097706938665869, 7.549293972836396, 8.236796024135797, 6.564 197861486632, 6.93141003637313, 8.514920313142015, 9.257363808944527, 7.667 287055200184, 7.552759375991267, 7.423984636432699, 8.861915291623045, 6.87 006363279424, 8.092680730405394, 6.207087011260816, 7.276112720123075, 6.80 3038016081836, 6.875866200675173, 8.097422245187348, 6.825577131248603, 6.1 7180813624067, 7.499456582229324, 6.900586236965533, 7.9528461303470515, 7. 753044173638255, 6.677440163205113, 8.069786659562238, 6.555772020929186, 6.8592247917993605, 6.813230906692551, 6.280545922928275, 6.50034866097025 5, 7.536486512512446, 7.716824345842138, 5.2953951258148475, 7.801272904734 687, 5.283346129553411, 7.110073944172489, 6.04287574676706, 7.250972414605 909, 7.504655227120807, 6.911341107113664, 7.8390078238216665, 8.2745725974 53352, 7.7174787276908665, 8.552590305904198, 7.596836954837416, 7.03302324 2116097, 7.655769613167448, 7.621435377123675, 7.302051343501002, 8.1269999 44667519, 6.7568860990498125, 6.08857134300043, 5.014458336383157, 5.602775

977392939, 7.748698718452782, 6.370330623737999, 6.724039765218323, 7.75223
84342080874, 6.2731276309982915, 5.862867782539949, 8.92377907179339, 4.864
061233117501, 7.545905405850037, 4.950088414493264, 9.460993004282962, 7.66
0733093884562, 5.730925278129456, 6.228490536254835, 4.976464865460945, 7.8
51995819018562, 6.323346197471486, 7.17221233454946, 6.201585944261406, 6.4
444098234498455, 3.6876097771945244, 6.993826748263433, 6.509662519592052,
5.91071624534609, 6.894632206728814, 5.552515146897924, 6.2190805690102975,
5.239994227270877, 5.415990258169232, 4.814956769743621, 6.324131072942918,
6.987775854033604, 9.524830597944812, 6.747405235570775, 6.72232911062196,
7.789110000198667, 7.539196650246889, 6.619896871549057, 5.369963469118732,
5.708237035153955, 5.7472178343994145, 6.071478204556619, 5.38314967886116,
5.536867885635347, 4.660051843817111, 6.2853828355898305, 7.754183970528492
5, 8.186415879504747, 5.370045096967413, 6.260787821009062, 6.6120707289092
51, 6.165345948172135, 8.314582191312063, 6.090416870038698, 6.092935992334
53, 3.2024279597052927, 5.313915880157349, 6.834850916254072, 9.81074299215
7726, 5.795296101495956, 5.2990089442358395, 7.2844516331614, 5.95508109194
401, 6.1744729816253505, 6.600113832668867, 5.96697339174581, 4.25199238797
0375, 5.200704905372183, 3.406251185158414, 3.666630922823962, 3.7929853914
238065, 4.770025932225228, 4.012536550504765, 3.03193234175696, 3.990081523
9400393, 2.7343503072167783, 4.473495382680446, 3.821796914924076, 3.288611
2911802723, 3.6609189059138876], K Nearest Labels: [2, 2, 1]
Distances: [7.391761523171228, 6.517421258008535, 6.475077696472973, 7.6117
91727364501, 5.517227511078641, 6.997060577712782, 6.416184829431591, 6.268
45370941645, 6.7034144301263465, 6.590327489247783, 7.386156678274767, 6.03
334347886308, 6.095001358403891, 7.91115052973804, 8.360030806143891, 6.462
8291074476465, 6.436592107918125, 6.179439565089928, 7.687130298091595, 6.0
43194184561092, 7.280388504257612, 5.151640409598634, 6.508153206370773, 5.
80288780956958, 5.967907785615926, 6.6710128070146295, 5.672386063762575,
5.545000704731679, 6.4109695041569355, 6.254802764087633, 6.76906271319050
6, 6.645645647423526, 5.951685855297636, 6.820452599035835, 5.6112584749340
21, 5.836305742862972, 5.761183720992026, 5.346153973154628, 5.991047641730
553, 6.836167227093543, 6.631346449348841, 4.671532679806562, 6.81653674861
96775, 4.436454118626186, 6.127328753963377, 5.106645002549394, 6.527562976
554449, 6.695763418686858, 5.979873080264105, 6.698459379500511, 7.53702089
8023913, 6.845515254964561, 7.352177528954219, 6.328083946932863, 6.2009615
14244432, 6.511119896324875, 6.686984595598837, 6.033251604996845, 6.974474
248937697, 7.28528045918243, 5.561744218753848, 4.526712335006112, 5.619056
9296332535, 6.924260481131551, 5.78800588648932, 5.692399570996325, 7.32360
3222005374, 5.762719975279432, 5.254653366896495, 8.583480563675142, 4.4988
74500099432, 6.890303044020141, 4.652601167025818, 8.296297663507614, 6.573
684603828061, 5.520069086335076, 6.292089083154521, 4.354091176934898, 7.33
8150668395314, 5.384836238309579, 6.746803972562334, 5.571889938645011, 5.6
88960861761521, 2.8813962692409345, 6.0444338588491675, 6.022271209672557,
5.377441686799617, 5.9002747660062935, 4.4332599786749975, 5.46053146954882
7, 4.749684031526806, 4.582857680288521, 4.43446484579878, 5.85478355852960
3, 6.177550642569446, 8.723115121374862, 6.017231068222793, 6.3334653368769
02, 6.844429348046725, 6.89358407062947, 6.274757717042425, 5.3969505497949
08, 4.621562606863486, 5.279341376382498, 5.481288780957133, 4.563046961858
33, 5.01485254128717, 4.145240184209737, 5.696326348682866, 6.5112375213174
89, 7.377979351794811, 4.9166317614635995, 4.998833931335879, 5.54149401225
6569, 5.049577521086887, 7.553096682919713, 5.571566246470497, 5.5287649241
28773, 3.5385613952949164, 4.930200014247506, 5.478381008487908, 8.00726838
4710185, 4.72182215207422, 4.910345676877415, 6.359419671926125, 5.07045345
9739967, 5.112393900880069, 5.230848345720682, 5.194306367328916, 3.3156066
642392403, 5.020182265937592, 3.2204515459177, 3.275536404991104, 3.5129483
349682658, 3.9126819087713756, 2.9439027175320303, 2.363998069438682, 2.763
0636774951123, 2.428971491727026, 3.042593652066483, 2.7031542610269863, 2.
7463632126135127, 3.0096409598785794], K Nearest Labels: [2, 2, 2]
Distances: [6.5727587435588175, 5.9925100662213495, 5.792571354869086, 6.74
2829571949585, 5.010624684331327, 6.11265367636036, 5.718395179489416, 5.70
4721199378345, 5.786459916135368, 5.733587406800603, 6.601665718062392, 5.2
62985359607667, 5.3806282409398785, 7.068119882356258, 7.478326238803678,
5.771266963827147, 5.561438592628625, 5.290868734039594, 6.836121796074885,
5.574032932581444, 6.4260377274113125, 4.993702378730767, 5.96536126922154

9, 5.358164915543461, 5.499112124675524, 6.275211645741151, 5.1216108692576
21, 4.894753481434664, 5.8241503710565095, 5.491192346393878, 5.92053421695
7444, 5.789415904406846, 5.226680550809369, 6.123105560103664, 4.9671207646
8545, 5.131452841867116, 5.195323890291027, 4.720406743888114, 5.3420336924
84107, 6.368389003213658, 5.728331775550003, 4.422999908948792, 6.174044552
8597085, 4.162543730154837, 5.32363003738462, 4.792505326660964, 5.96709906
5753206, 5.79964566543315, 5.021178153324976, 5.755235303139253, 6.69699833
3521818, 6.150364071963278, 6.540780685396749, 5.592564849641386, 5.3519967
37321108, 5.558983410921326, 5.732038509551736, 5.3883402566398955, 6.06028
0130517888, 6.874843390096564, 5.222224630720431, 3.8695856048937856, 4.970
584446337494, 6.24167446028253, 5.489040516167379, 4.964168015711502, 6.520
397512180514, 5.3659008784470865, 4.623499061273077, 7.83274842110906, 3.95
54130329486497, 6.324251721605845, 4.135445895497223, 7.681170950950128, 5.
952409791845664, 5.200734795277872, 5.552877615620816, 4.342724434494163,
6.423343128838412, 5.248295861802575, 6.310409963371196, 5.06160927340035,
5.420919775373327, 2.887566244089634, 5.46215518851765, 5.466948621564696,
5.0122834912399, 5.824187818848915, 4.376857301474352, 5.267948165244642,
4.510553838303745, 4.2909680062392335, 3.9964269099734797, 5.63209809483958
3, 5.84921931859879, 7.867041786722392, 5.67860521994807, 5.79307509601731,
6.092235940161237, 6.5536949933821935, 5.858771518981424, 4.93190383391808
1, 4.4334045188374205, 4.867286237356815, 5.093412059244745, 4.566447642021
041, 4.6959401638169505, 3.7024550487415184, 5.057282170057744, 6.044896183
359549, 6.884398978375933, 4.65334315460717, 5.139306801232945, 5.098913059
680427, 4.832460258853111, 7.312721780898716, 5.2555425074083875, 5.0290620
54137327, 3.6793556475701905, 4.91588594596163, 5.231428651884224, 7.767421
625312193, 4.998450022301188, 5.150963979695769, 6.310359341046467, 4.84443
7405169978, 4.512108563350988, 5.089626526253514, 4.721661673493444, 3.8191
710140827717, 4.25239970489445, 2.920335041671646, 2.826921588216728, 3.320
002506851855, 3.1757187758843313, 2.4848241914349396, 3.2850439330622088,
3.6368267858948955, 2.3922984480019953, 2.9368110967770504, 2.8512541622275
864, 2.552521259169648, 3.1735104231640032], K Nearest Labels: [2, 2, 2]
Distances: [6.714773290447842, 6.421748534501509, 6.265335693949703, 7.1688
51107392768, 5.274842832215674, 6.549635156011257, 6.414511006574935, 5.944
87813663283, 6.39091371751489, 6.24332858716905, 6.9633079671851235, 5.8344
73195755057, 6.103717754156446, 7.800904855531616, 7.950048593114191, 6.037
214826965445, 5.777843864725712, 5.636375713191471, 7.203877290145411, 5.50
7555267182212, 6.4884439120919035, 5.2396358526375355, 6.488764315511666,
5.9753177378492115, 6.1302740359232155, 6.553782378751836, 5.91693803414126
05, 5.553524103023592, 6.3619031916947195, 6.176818048822128, 6.45984889557
5781, 6.116320881579274, 5.812515416982645, 6.391940548422207, 5.2923957899
15815, 5.637795729591827, 5.551784729935649, 5.269700346298267, 5.793063263
526478, 6.193963531735506, 6.0387854694587375, 4.940733463939113, 6.5930543
47293348, 4.47514724622408, 5.746129020549983, 5.054034833423182, 6.4239558
34680949, 6.236833907364512, 5.541808901773301, 6.070228100004583, 7.044640
2647365085, 6.658511607561851, 6.995517324776533, 6.037481863538846, 5.4194
803935553235, 5.763969365528945, 6.01088269862612, 5.8820405712920945, 6.38
7806846929572, 7.323301777597662, 5.938978867642876, 4.4674733994889895, 5.
518302224638947, 6.801608123613777, 5.804023552118634, 5.479957799441894,
7.2237952249392, 6.077634852765835, 5.385289151626442, 7.348259856925876,
4.251327902511375, 6.9417639071369335, 4.795947937752907, 7.61182564364568
3, 6.436136416787455, 5.365588578415156, 5.995824871631574, 4.4379771295145
485, 6.257454207001986, 5.735602060992887, 6.873786520077889, 5.65918972985
1024, 6.335897835968802, 3.9881764087393523, 5.956745644739827, 5.956885286
014178, 5.633202858042705, 6.459793628616492, 5.322039200360347, 6.44545033
8271792, 5.461098081950769, 5.174672442985051, 5.132166876418366, 6.1096110
00278105, 6.1176612824480125, 7.485518966224081, 5.097150373441429, 6.39041
371859714, 6.688112653431981, 7.15249423304202, 6.134928699215081, 5.484863
813158917, 5.047980267750206, 5.661854525221165, 5.887520243000121, 5.52027
5587601356, 5.47443937658255, 4.649291165524642, 5.798359430615121, 6.61649
9546163426, 7.053848269176999, 5.235345918029619, 5.557372744842051, 5.8838
4425443387, 5.7833754765588195, 7.9732791459667, 5.939105741653141, 5.29008
5896679107, 4.46578448529333, 5.5653160973039215, 5.772736746846979, 7.8317
21714824136, 5.326536498264886, 5.539489564507636, 6.758585696897157, 5.616
997215492897, 5.355042647200387, 5.8537129696509265, 5.496118366626715, 4.6

626550414569286, 3.7581182369477153, 2.4344944021282084, 2.72769883782696, 2.7323299668203234, 4.62139316953012, 3.6069233971682664, 3.88971486858834 9, 4.205823961655199, 3.6353459177026535, 3.927607002673818, 3.828662917644 539, 3.520132889355483, 3.929184506571799], K Nearest Labels: [2, 2, 2]
Distances: [6.5293096231691, 6.845495122671953, 6.202974693512184, 7.064707 447022379, 4.945288517165816, 6.611015458330667, 6.545365947402562, 5.78404 5472431345, 6.565026061274753, 6.3328968119625095, 6.92129747440628, 5.9145 67040283649, 6.3058084751497185, 8.059823443527872, 8.094576761763795, 5.92 7345241570135, 5.382354857785504, 5.458030312055814, 7.235033364762703, 5.3 91566267240016, 6.312455706893106, 5.305834373380606, 6.540735058833971, 6. 021923238279573, 5.970846800639494, 5.944215300618644, 6.0786566641890625, 5.881872358221639, 6.122837490953991, 6.335340890508987, 6.102789931292236, 6.051730523590417, 5.986911699053499, 6.218124063351609, 5.046070364421483, 5.5360128213550945, 5.420792908361864, 5.2942012720620895, 6.11515457213257 7, 6.142145966228214, 6.093594173974554, 5.486881391282139, 6.4794304402223 9, 4.965655735121403, 5.973575836589025, 5.2137209905369355, 6.627564416681 982, 6.352667366824705, 5.527560245687233, 6.210539013604174, 7.38032923062 2648, 6.5353998001354885, 7.115746514174923, 6.012629362426033, 5.361256629 478319, 5.408429187489379, 5.931704563988224, 5.904704992425051, 6.21905235 7122713, 8.144468179633652, 6.616499636354808, 5.369226050771629, 5.8854700 95629834, 6.882985712038882, 5.955611110835645, 5.551435402679308, 7.700278 5710858515, 6.544540817125722, 5.750000330020439, 7.217569279520162, 4.6047 53316266205, 6.456509825805393, 4.76837827697798, 6.808859144150929, 6.2946 99002939131, 6.065501824928941, 6.470228771205038, 5.081016921614546, 6.403 596150193704, 5.963787136761529, 7.156999049554248, 5.913331219245625, 6.43 0136280375245, 4.96428685980818, 5.852740341817667, 6.049097888951262, 5.86 1741304162215, 6.450305764293643, 5.814512351339319, 6.771923857794671, 6.0 95730213620167, 5.587629751618752, 5.767742528113076, 6.403846198083868, 6. 249448986113133, 7.151721946575521, 4.372982075508903, 6.8206649787300835, 6.8693527844248266, 7.586180412386091, 6.693711394719717, 5.933570771994495 5, 5.211339662493461, 6.2822118651452055, 6.308667219514952, 6.211694771998 146, 6.016785889972535, 5.092678766047067, 6.255082636115403, 6.51052119353 4318, 7.437323154897119, 5.484753375419363, 5.882480154697503, 6.0792945699 11868, 5.9935948986171415, 8.357755408497964, 6.323580613371754, 5.28448433 09101535, 5.629727125496465, 6.266015539098366, 6.036368328405279, 7.364167 285026841, 5.327078642269553, 6.125873108343695, 6.996065733585453, 6.05148 11003945885, 5.620853603633633, 5.8688157461526975, 5.5935081185995426, 5.4 154966333220145, 3.5434277748073852, 2.7519009958318605, 2.791279473072288 3, 2.8785490287968316, 5.57266971363361, 4.932177217140902, 4.9327638626246 56, 5.079304917685111, 4.876495803474642, 4.337976293306131, 4.362288896579 39, 4.195056544355934, 4.1861151978430025], K Nearest Labels: [2, 2, 2]
Distances: [6.778927105070349, 6.623924416154667, 6.291766394294863, 7.1199 45477503015, 5.486313403299572, 6.717387763916033, 6.587750164756369, 6.180 741789526817, 6.6389586047107745, 6.142242835122124, 7.137990993936324, 6.0 36244955995267, 6.265812501633623, 8.093542674871006, 8.063931368521247, 6. 1284285836801065, 5.920028284581271, 5.78607369224517, 7.3014539245623356, 5.6585188476815285, 6.5213211561248565, 5.513286140394319, 6.64632976099465 9, 5.992785363148263, 6.195473328058508, 6.653910874608278, 6.0195051733295 33, 5.814390678700679, 6.524827852167466, 6.304750900306201, 6.439864499879 233, 6.123158506065538, 6.205234515087508, 6.69823486908885, 5.444282796925 514, 5.653104279163535, 5.642746982880529, 5.410976222655957, 6.05677678139 5352, 6.5040069662071955, 6.078809173317852, 5.515156295441537, 6.506908339 628123, 5.0445968674340085, 5.799307663738344, 5.61044790739851, 6.82900408 5842638, 6.225120831197853, 5.7067870455129635, 6.135003547235527, 6.998787 060491325, 6.6604229475676116, 7.0514681373353625, 6.243389430117132, 5.445 729753117773, 5.6307889376331985, 6.04060044820885, 5.965981802688288, 6.22 5790231091519, 7.662286715357709, 6.495775712348477, 4.94809338548941, 5.88 7903939428138, 6.656277281488167, 6.12449934034132, 5.494126518070889, 7.23 4748045712089, 6.0902695780444835, 5.8521178547208335, 7.408758543824775, 4.59533908445558, 6.886958911752198, 4.92016799737125, 7.569940960305801, 6.186417925802297, 5.717537707671708, 6.104531249532275, 5.054658035090756, 6.412553320970458, 6.30353162408805, 6.95538274592375, 5.776721707261969, 6.4546296748415894, 4.9438641226420765, 5.577832841039634, 6.03741628397699 9, 5.958423067556984, 6.5704752593711815, 5.61238468476899, 6.5894877576002

45, 5.875521177492714, 5.383514342422492, 5.587436709447725, 6.3350337145213205, 6.069097538148101, 7.62482531060098, 4.972163069227668, 6.542317903688633, 6.578193184539794, 7.605762042396125, 6.466041787650483, 5.712388624698965, 5.183701921553908, 5.922983386051475, 6.07849986038356, 6.089010831182854, 5.658499930551885, 4.98646958053389, 5.901256681762161, 6.413305240795701, 7.232113717625735, 5.452485816804872, 6.035858789148753, 5.832599517013932, 5.823285670128575, 8.265969896079019, 6.019612969209186, 5.475281912425405, 5.217433552094614, 6.108189973987565, 5.772809315092299, 7.627202092477467, 5.8543337319441955, 6.257046794586613, 6.861848619765993, 5.788366834116265, 5.311550764747127, 6.063697817942831, 5.608043190195848, 5.3288605957047315, 3.778645080662111, 2.8835765828935167, 2.8418707709699143, 3.2056496146091766, 4.9670755182445125, 4.33956020516655, 4.961550442360782, 5.331969225554494, 4.69524931710711, 4.5255769212178665, 4.407216356701083, 3.954505931136733, 4.635480199287416], K Nearest Labels: [2, 2, 2]
Distances: [6.326106857401167, 6.729481641720537, 5.6341333235155435, 6.692988282785411, 4.215146215793793, 6.328350091353374, 6.354390394874782, 5.682679000823398, 6.3749867234143585, 6.014766110721069, 6.681993212200143, 5.762438741713049, 5.989009342078885, 7.690225108108087, 7.8452092477939885, 5.65902419788643, 5.033812826343268, 4.951985702091331, 7.030311679836582, 5.388820126002023, 6.0489609115493606, 5.072986442987011, 6.224978605834481, 5.498290127911261, 5.374213181739128, 5.018736115591826, 5.588203034652997, 5.635839590700638, 5.480252594666841, 6.006777790111931, 5.33748289652324, 5.76648484457139, 5.578221971267154, 5.779879777086141, 4.6415805610385785, 5.003609030196008, 4.921828653574317, 4.7800977036352394, 5.847383877814205, 6.277100773135939, 5.61914024340881, 5.529333564138913, 6.111640535764393, 4.900899229329634, 5.512822755615009, 5.3410154922241215, 6.4787904626615065, 6.031873477643969, 5.113390491469914, 6.059483898999749, 7.155682800428864, 6.17302727289839, 6.679208716670219, 5.635999909799252, 5.283220451726018, 4.85393429805522, 5.614603624802214, 5.446857266823771, 5.754726882394614, 8.073763221761249, 6.180982712412556, 5.142259494393158, 5.703401322840576, 5.951405826021078, 5.368756557383109, 4.694611388882765, 7.191834267428782, 6.124118289629303, 5.214690576342393, 7.124677428457438, 4.4048206080406835, 5.4812182392344635, 4.3015495467933365, 5.98411321841662, 5.278264968384292, 5.914970347924766, 6.238632148469562, 4.957032588064427, 6.115085351344348, 5.336188782357657, 6.453507783939473, 5.440319950385627, 5.471537564341825, 4.792890438214434, 4.890091380992522, 5.418983654314266, 5.130305796276095, 5.5676566219549795, 5.053592281066843, 5.840170598962146, 5.4874041109235465, 4.868300977287783, 5.197402312895415, 5.849894325147865, 5.5074938469128725, 6.723157065089578, 3.989834844076695, 6.220286147140588, 5.996337225650969, 6.911172535414771, 6.482040580150254, 5.671274765355302, 4.457609118490038, 5.556756227976326, 5.794726385775181, 5.721220357446459, 5.578090948506427, 4.549001414954787, 5.4911417793976, 5.399187261699131, 6.858831822526706, 4.835517122231093, 5.395642771891055, 4.901764881029894, 4.978014907402678, 7.484272859210994, 5.690903118241931, 4.6168207631048075, 5.731521816508161, 5.912616207123762, 5.187938334632136, 6.412675954648525, 4.7553886784507995, 6.056790880933612, 6.383439827402182, 5.321915539530511, 4.650093221278234, 4.710903792136618, 4.580122895677246, 5.0478831803403645, 3.629243810942674, 3.2941821579065382, 2.9699562114586384, 3.298356781821031, 4.960980756520011, 4.894579185492525, 5.067855027007043, 5.061758889832144, 5.025873699997895, 3.6836923838089106, 4.112888414491875, 4.358183628787602, 4.040510315932711], K Nearest Labels: [2, 2, 2]
Distances: [6.780907289630306, 6.466063240081097, 6.077935846156874, 7.0547973674697175, 5.699534845029805, 6.289121826041108, 6.127456597785435, 6.373531783089865, 6.1239707024797605, 6.223966727386618, 6.984285879732636, 5.951865752606038, 5.911704896326047, 6.869283235813209, 7.310986870473311, 6.261624272465387, 6.027234238557553, 5.708654984612335, 7.000101910264842, 6.2671123821021775, 6.753282132984198, 5.775459174281701, 6.630198680694372, 6.255107186645334, 6.441227478902386, 6.92556591583335, 5.822196748706534, 5.725183198222325, 6.460195579326092, 6.04549074094625, 6.520491133865733, 6.319851116199287, 5.567836847766893, 6.439432772294241, 5.807972504690987, 5.948769417282471, 5.845437988830433, 5.602121060038971, 6.0038487521847035, 6.710614658391682, 5.858202144164029, 5.370697021114545, 6.873173652275852, 4.908312012849444, 5.775408692368153, 5.65891010484712, 6.386231363809652, 6.237230964770111, 5.370950464964221, 5.864587318540808, 6.685774753

587928, 6.664018254484865, 6.741075956778272, 5.929943970036039, 5.93620054
7098913, 6.099382397719364, 6.092281085025229, 5.9446301548860045, 6.558161
810341617, 7.45132801992122, 5.620774352385664, 4.312996793011783, 5.919163
90742117, 7.030649212403852, 6.184808663753661, 5.417932652552603, 6.814140
459633906, 6.346707701339258, 5.3267355017281615, 8.041689227488826, 4.7997
17721133229, 7.461830422307013, 5.653756250451878, 8.57896710462868, 7.0357
81553572231, 5.758173040438411, 6.173966627523881, 5.106966219151804, 6.234
659011470631, 5.97827250263627, 7.091028839005919, 5.894344848151698, 6.492
417817065579, 3.438146523795426, 6.202105699628473, 6.287790214813503, 5.85
1299675137499, 6.8838267503319175, 5.295193665627167, 6.376277961083437, 5.
052627219694351, 5.010945763887526, 4.5348529356110365, 6.431999156520005,
6.838230976574853, 7.778974630302606, 6.7159241703488615, 6.39554892160237
3, 6.748727956839614, 6.703751925301889, 6.5106034012640865, 5.841024129788
16, 5.605726275496055, 5.731209553883187, 6.030036863147548, 5.060280314155
445, 5.461253155420078, 4.590473129614953, 5.583507401628795, 6.70720361056
6709, 7.011088278979733, 5.970792177595018, 5.659272432829059, 5.9478536864
13713, 5.98721884304343, 7.680497741879373, 6.239016400696122, 5.9576421221
980524, 4.5729951296183895, 5.653283898549756, 6.040760467910884, 8.3378035
59400077, 6.070543225370745, 6.040873223647745, 6.991709987722262, 5.861351
855939127, 5.376299070730918, 5.9301643768250925, 5.720663454611678, 5.0148
58187684912, 5.3097205165266885, 4.427127587262562, 4.547148787353731, 4.94
6598090261708, 3.4654165548086775, 2.6250057147210444, 4.315672648510254,
4.41259592165529, 3.1574630164734265, 4.2449109811565195, 4.06954098956390
4, 4.110539936078444, 4.631021745662695], K Nearest Labels: [2, 2, 1]
Distances: [6.732642370837262, 5.96955474060535, 6.320767262278292, 7.4130
30162746467, 5.648005843610371, 6.498848628095838, 6.162425961990424, 6.159
590379560554, 6.1065020079159895, 6.081113713236805, 7.038883170986354, 5.5
20232996141051, 5.790681134070235, 7.351542976104709, 7.818531011725335, 6.
25165846275563, 6.1338993412843505, 5.680300925385868, 7.284183434046303,
6.284677923527194, 6.5423005075486005, 5.900513252687681, 6.25295503573150
8, 5.605624173060807, 5.9924994151867, 6.748332172969196, 5.641652339510935
5, 4.976199436898235, 6.39506261055175, 5.747286885645285, 6.48026340133686
05, 6.162160786375756, 5.266102436019053, 6.228778331663987, 5.331270302203
512, 5.586301371384361, 5.526137239605328, 4.998552501989903, 5.16671797988
3172, 7.140258393173175, 5.835118914879253, 5.335185479525855, 6.8417417049
0939, 5.058328355160799, 5.343740157257571, 5.9752836860153655, 6.825856051
0678965, 6.109077693547315, 5.514434236394113, 6.071560686586339, 6.7061140
12774874, 6.601455857046069, 6.954030580505695, 6.017343476011113, 5.496321
791243207, 5.940819868448328, 6.051859508532788, 5.94731969444804, 6.538977
683821246, 5.892748127627414, 4.355238662107599, 2.909102816021325, 4.71155
77469117875, 6.344848082251468, 5.084430785060312, 4.795941954840353, 6.305
7571777878625, 5.124137608227948, 4.131978813540245, 6.848041381447193, 3.0
37662901153494, 7.030261813152808, 4.509235587077335, 7.94004389620377, 6.0
00071272988727, 4.379152621500713, 4.968389559851772, 3.9109067311509325,
5.210209896109662, 5.897714450243995, 5.852823959921113, 5.137042992382447,
5.330808917591569, 3.6718088480867, 5.2307609924824146, 5.073732182462762,
4.657356235115664, 5.833277500858383, 4.259451143573635, 5.210315077004428,
4.011377856859059, 3.795722757316634, 3.400233153107454, 5.852447863847478,
5.910914834611819, 7.147294415260346, 5.526646049502049, 5.45294187973955,
6.120920475792544, 6.6679524049818815, 5.397126795451289, 4.27541525464362
4, 4.814339245493376, 4.350013093348449, 4.928153601605253, 4.3453838140932
27, 4.375710691695209, 3.415689790594801, 4.411250067509443, 6.069970158221
195, 6.878927101364879, 4.983184780247366, 5.216688221762987, 4.65825320572
4709, 4.937240200933382, 6.818081818070633, 4.782389481737993, 4.6276311659
18599, 3.8858394855183915, 4.922968677480513, 5.4139452387999425, 8.2412279
79341186, 5.950603301807567, 6.417857608369681, 7.096583534787481, 4.952627
2377987395, 4.638700928342838, 5.292204970866787, 4.670466903018471, 4.7498
03118606547, 3.7032858419320367, 3.4903114501986017, 3.2483057938829223, 4.
166919846974114, 2.2311186372173735, 1.9254777988295986, 4.223915843566975,
4.948713151789863, 3.113639106115557, 3.7558137325064926, 3.47140756687066
3, 3.2249827652762493, 4.171121099621402], K Nearest Labels: [2, 2, 1]
Distances: [7.506491504869618, 7.076843508136972, 6.529753895142322, 7.7529
17498131963, 5.789349572066463, 7.032580488274167, 6.707926118525003, 6.682
576930215532, 6.8380959395324, 7.029991775678933, 7.406975399015846, 6.4205

59338346969, 6.430145882720078, 7.686858943256288, 8.19348952974309, 6.806726950180135, 6.49395683514443, 6.274973212933695, 7.731785420501929, 6.583458362368702, 7.481577997860727, 5.649339797146948, 6.9824193226945654, 6.539719175422067, 6.589905365179426, 6.871252213199265, 6.260631683589338, 6.03616930350091, 6.730047903912786, 6.598612081303986, 6.8761113125351265, 6.866684869161718, 5.985840521096583, 6.8571580403749, 6.081753474390342, 6.290144887852457, 6.346209087441357, 5.909070904536701, 6.4425874415059665, 7.038202961465011, 6.704186980847996, 5.0985485288066705, 7.420837606270191, 4.799329676469303, 6.411344122923674, 5.476995977669511, 6.582604638158952, 6.977844862479918, 5.962189868165451, 6.732545314514022, 7.61432535127052, 7.1634453149315345, 7.539787492733816, 6.472429846893047, 6.614240622394225, 6.670628892093451, 6.874283024773832, 6.4300983876766535, 7.3067807089977315, 7.874532356155533, 5.903477767218223, 4.944874925299688, 6.203409922292175, 7.47558987098011, 6.293749708146852, 6.000778819299897, 7.588125897349417, 6.626177672029332, 5.700858219859277, 8.599379070296674, 4.900196890940345, 7.441841012814828, 5.54266080749478, 8.484557892747208, 7.288498568684652, 6.039677974274034, 6.795551154863029, 4.930050883927398, 7.113541001111236, 5.453164646909622, 7.342373057526162, 6.138831626054725, 6.324951805598129, 2.5816088721193817, 6.743792150090642, 6.645350008970979, 5.726581375149595, 6.553049688300615, 5.078651968532281, 6.1638017980012245, 5.10270087246311, 5.06365385399364, 4.6242442865100415, 6.39172893849234, 6.99904496662902, 8.324953987631089, 6.68856561765557, 6.7961352340931604, 7.2875090344511255, 6.707382501443107, 6.682037652212727, 6.035125034275183, 5.48584160710348, 5.796406870921959, 6.0945246561863975, 4.788019926066419, 5.648791086059777, 4.563479693823257, 6.016375763893695, 7.007017049291303, 7.115564777810553, 5.763724571814312, 5.433771430453632, 6.199091054597391, 5.957296851437665, 7.659004900152867, 6.280299808406429, 5.991554048605688, 4.3058195916278885, 5.260687757512704, 6.11384427731826, 8.377280504209013, 5.077173986879711, 5.107116191894908, 6.69795705133479, 5.809871232149152, 5.688266433909175, 5.471447082549395, 5.6373723553451764, 4.008266488605895, 5.747152668531718, 4.282364846530091, 4.3514000783867735, 4.500931868597752, 4.185458549038615, 3.0795271403146733, 2.8942382231455546, 2.574308136136959, 2.612698155170862, 3.6462663644649607, 3.652799335892285, 3.9805038548539833, 3.863815691820386], K Nearest Labels: [2, 1, 2]
Distances: [6.742942145726734, 6.2871763214610805, 6.024001833561214, 7.023071216568454, 5.397020868861864, 6.389203289323173, 5.873683322879737, 6.143393263084341, 5.837551150658398, 6.028081164745266, 6.867692193982548, 5.653238415582772, 5.713062117153314, 6.899838948966745, 7.471799967583178, 6.2008175213450185, 5.938487992428053, 5.748469019581256, 7.159249530478423, 5.7326534882374265, 6.609600886635005, 5.143649805742314, 6.275170736435767, 5.907634758767661, 5.910268711237496, 6.772987851762661, 5.578247158524798, 5.4897958093067105, 6.13620072795483, 5.7291944388291745, 6.383774902550189, 6.304562145590634, 5.488371608367991, 6.6289069408093395, 5.504424683135987, 5.577727015286234, 5.605896851510679, 5.333261412254184, 5.8185068300551315, 6.231427015436006, 5.916863654736174, 4.684039738560128, 6.463948087360429, 4.256179945979932, 5.711859360492862, 4.9989258492644835, 5.923576101947652, 6.027030328283228, 5.222826390048604, 6.0078135721212345, 6.775227855079539, 6.404078377047472, 6.786415331864891, 6.002200312946011, 5.769734339845843, 5.997572337842638, 5.968389107623521, 5.83084554595761, 6.471232824791834, 7.285248838147116, 5.830856490066997, 4.460673227433025, 5.459417105862177, 6.681139817189529, 5.988138167663234, 5.419969728784706, 6.649623018532151, 5.928637396863174, 5.325243152028424, 8.232203931822767, 4.7650438439673435, 6.675780021016331, 4.792387699402283, 8.375784695821872, 6.760018611204423, 5.653802109461837, 5.857233882934902, 4.903325504895087, 6.742673714148641, 5.457092969016495, 6.779389114180992, 5.474262014346799, 6.125036501804422, 2.949379353020319, 5.978097532177753, 5.951633638766549, 5.593209115975007, 6.529988616270896, 5.0978959616709965, 5.961433553630581, 4.904964626428537, 4.875810995350886, 4.425702405369786, 5.815551028830583, 6.3826971708357565, 8.221440178091425, 6.396127589379638, 6.119742476750107, 6.5777211114647205, 6.52595295477146, 6.323404887697194, 5.453825517345892, 5.025860707933149, 5.478186541330049, 5.643608287828191, 4.885158217066853, 5.120804095567418, 4.24420307658189, 5.468385520478892, 6.564535309917711, 7.014090980189069, 5.1880950453053405, 5.608182589377755, 5.8641875775077255, 5.5540797808180375, 7.720817210248421, 5.8913057779697375,

5.615238587871143, 3.8229299889727266, 5.203766831634365, 5.81371593154693
6, 8.291720102641996, 5.313788815512671, 4.979168960373839, 6.3568039820763
62, 5.389733293437454, 5.043144120084371, 5.76736145841184, 5.3053105013740
97, 4.222909317255669, 5.025278824437389, 3.5860779264827976, 3.81690110571
1529, 4.034650513761566, 3.8426141845891735, 3.1012182156422603, 3.69791340
85371848, 3.8001672335331116, 2.549669099043611, 3.772570532586383, 3.51701
91844048095, 3.3226121592441866, 3.7421514613051103], K Nearest Labels: [2,
1, 2]

Distances: [7.514895029037392, 7.324858320389039, 6.373575476569704, 7.6960
24047181606, 5.1551157186725876, 7.011046971785027, 6.8535706494966355, 6.3
025458915213255, 7.27680619123035, 7.020745178185057, 7.427695176079669, 6.
330271226782784, 6.372613014946612, 8.18716505142082, 8.565261315862099, 6.
3244736673216035, 6.056218890447343, 5.67664121680996, 7.517437827602718,
6.8452317572477535, 7.540175779074983, 5.7961141618277345, 6.86923035461852
7, 6.016595964984274, 6.071414464169936, 5.513653991760539, 5.9257019491795
69, 5.935407273533249, 6.167815235081204, 6.74161135559066, 6.1844772850751
51, 6.5487806204418675, 5.902219414777602, 6.012750692262283, 5.52691414142
046, 5.922610971993131, 5.863580230104656, 5.395431482377772, 6.40939408149
5585, 7.7589934053584, 6.774120828155278, 5.688060758595586, 7.375402384536
874, 5.49951145240371, 6.468921745338113, 5.82647677094242, 7.2126648467078
97, 7.221695805993485, 6.0100283165993105, 6.723673732974129, 8.11624120937
4698, 6.969196209856378, 7.546500372299439, 6.042235222288779, 6.6002662226
00071, 6.355989731385279, 6.964970236813259, 6.055828159980234, 7.119370306
143266, 8.337149632088598, 5.285519573725999, 4.8385988042067325, 6.1423206
65619803, 7.193237124682842, 5.541196084474385, 5.465079658513414, 7.978522
429354956, 6.31795134155094, 5.0291277980709985, 8.601215819177916, 4.42449
9385644081, 6.759021588238868, 5.004102348610855, 7.270604510806664, 6.5346
21467237707, 6.125774063226084, 7.061445381381192, 4.828615823961861, 7.234
943442982719, 5.396764514481622, 6.965317445544839, 6.001685502998193, 5.13
2272750611604, 3.2184256601890864, 6.237393718969437, 6.2329098544818144,
4.9677098995605125, 5.161588738649187, 4.14851415336747, 5.228298415955445,
4.843406260688186, 4.202871407159287, 4.268838456706473, 6.599314096989601,
6.695153811326261, 8.117196028670927, 5.902605217415332, 6.871825798988065,
7.045570170886475, 7.045882736956476, 6.807780832882252, 5.994275547104968
5, 4.987172298973705, 5.674544597422126, 5.83623189163109, 4.43806608734926
5, 5.513992772186621, 4.095805035161139, 5.975241326602445, 6.2760610193138
46, 7.7637898500831035, 5.636327771068887, 4.389251776510695, 5.07453665391
0481, 4.8978231071177, 6.998167050210997, 5.895791478865721, 5.440853696527
499, 5.296781740587439, 5.690972660140599, 5.654128042742856, 6.94772950895
7908, 4.6180055863625595, 6.278330595679815, 7.112025678018145, 5.485153687
316303, 5.278848432807595, 3.798206065006447, 4.957256984033408, 4.20830633
1786124, 5.481076697317797, 4.424277154524212, 3.8127922236275515, 4.645075
148676487, 3.8898984078277783, 3.2037298758248425, 3.32658421255091, 2.8852
298613212577, 3.5459602692895738, 2.440759010807507, 2.894383703005366, 3.8
71793298214489, 3.1235787119247793], K Nearest Labels: [2, 2, 2]

Distances: [6.669568693741193, 7.777604532500777, 5.769625777668913, 6.2932
19506139642, 5.6716699050367145, 6.2496076189693275, 6.463027113697691, 6.6
98889111897861, 6.530928046800859, 6.220246991855021, 6.836589885782565, 6.
577494508793406, 6.376159651023679, 6.958107585579458, 7.0862801745386825,
6.303374589464423, 5.533135135644998, 5.4185305385074, 6.645025395033429,
6.818888875191251, 6.735873689775334, 6.428274187930356, 7.061156955028299,
6.843479279043952, 6.529117821201455, 6.297903360107533, 6.290414916149122,
6.881884541662001, 6.177598720540936, 6.479824070126573, 5.621960407402436,
6.219975803858822, 6.280445556248626, 6.47682763743289, 6.197682209372779,
5.917088272888906, 6.396572376704915, 6.341281758268929, 7.269168921343278,
7.199617956801539, 5.877934633308736, 6.675134962012997, 6.803480467538875,
6.23611445858986, 6.325934847689246, 6.31221534517951, 6.6662129155233485,
6.347518293437103, 5.205949474995963, 5.71855168235811, 7.186506911734756,
6.525065499580151, 6.610877618745375, 5.988893834407374, 6.433521218520254,
5.551641066636889, 5.9836371078707655, 6.121919474121758, 6.16721511515831
2, 9.967969961378987, 7.821055945080455, 6.737816424896964, 7.3795506487307
1, 7.215263613676261, 7.565056191064312, 6.042649310546121, 7.4861799126420
55, 7.551505991440426, 6.944534732266875, 9.103589051650935, 6.835737931821
411, 6.721304952370178, 6.403428157171825, 7.662357539770789, 7.24279720674

5278, 8.042726812358044, 7.658086647429287, 7.480337497691879, 7.566076973274001, 6.662107332771347, 8.149426305788706, 6.808119137425975, 7.2188002936091955, 5.600771669808641, 6.726339895876758, 7.296964742183079, 7.063680197373174, 7.485358158004062, 6.786141032359717, 7.271558216053228, 6.9796972407977504, 6.447391137797572, 6.380841365360451, 7.535561821637603, 7.789397822423122, 8.112006743829452, 7.661900835446418, 7.664838737513442, 6.995267523881511, 7.55773526923426, 8.180464962803772, 7.620250612497278, 6.5475234934665485, 7.4326297047017515, 7.196607395518354, 6.761834302204323, 7.003789293165882, 6.093531629775747, 6.822629688831158, 6.829207608410731, 7.786803102002389, 7.138637145971541, 7.130796393568969, 6.876087121234676, 6.746669146552875, 8.65453077675301, 7.606383630159283, 6.958883767029787, 7.444538208167123, 7.576476181646087, 6.8411952520988795, 7.348455532702463, 6.7461568327117645, 7.2993970103404635, 7.427241361407003, 6.98347444082395, 5.927733571977543, 6.243772019821044, 6.348275666312473, 6.869588755617877, 7.033657956082839, 6.509007055924689, 6.188220881617371, 6.767327168158241, 5.875755765780909, 5.814196421520083, 7.10930894613875, 6.485311041002468, 6.043368663937297, 5.600933979829292, 6.015739582071218, 6.16435800700046, 6.173147804954804], K Nearest Labels: [0, 0, 0]
Distances: [6.554184981859626, 6.8988438000755945, 5.420678201391228, 6.308892336296173, 5.2541689916239855, 5.994365104646419, 5.99688055314294, 6.341713574558658, 6.091686426630225, 5.747503361468875, 6.639817022510796, 5.944240424042867, 5.7073893133524445, 6.654531685758703, 6.9442823668248925, 5.883002769458821, 5.470101605597442, 5.1533856921241465, 6.505016765622122, 6.31030695510257, 6.5264245466883555, 5.775005099471128, 6.510065046766281, 6.016276024869131, 5.951059120463133, 6.1313392859730165, 5.525090160896263, 6.002952703389552, 5.839275346533154, 5.917509778656104, 5.464842732327374, 5.869263268547323, 5.676020119297609, 6.254996254213962, 5.60441924104578, 5.41868621071107, 5.6493316251009, 5.468633179060527, 6.355132945029998, 6.945389046400652, 5.544325343272905, 5.889199978840099, 6.343346425440355, 5.463692421410598, 5.6931922378320285, 5.922372939813689, 6.3726790776576845, 5.914436769601733, 4.908188977775481, 5.494285498332449, 6.583881185597341, 6.11122078808843, 6.294758109722991, 5.6299862435493635, 5.947912404157694, 5.371537411840673, 5.752925312680722, 5.522877761094353, 5.84663416591031, 8.673519110305211, 6.5848510976772845, 5.448106937970803, 6.434057282890699, 6.396983533436165, 6.515951947734395, 5.091246835644115, 6.694358136136271, 6.458669891387263, 5.928216049362246, 8.60468470797158, 5.685952962066551, 6.359813760998556, 5.534754198061323, 7.735811520647039, 6.4369779437590235, 6.768849011547859, 6.620326406291789, 6.302361542129116, 6.9114138605523205, 6.043190094615507, 7.118809376622974, 5.870651950227705, 6.176075103074676, 4.551462009470487, 5.71544476798029, 6.347870002994895, 6.024006791795141, 6.570571968894354, 5.534525583261749, 6.164623415012145, 5.675044368559919, 5.246390620678165, 5.153470773874662, 6.57775257856886, 6.7496804448562395, 7.960884597359517, 6.889583086473698, 6.589655629871312, 6.186240522305155, 6.816566591781687, 7.1750186628068136, 6.48612388040146, 5.57158028798987, 6.195493750585036, 6.212335398641711, 5.745701744266144, 5.830768243088546, 4.964597869803787, 5.786173098682834, 5.994084448424286, 7.195285616687702, 6.089540953605375, 6.084643418628141, 5.64156985211839, 5.645294818992837, 7.705913196846266, 6.4840848849934964, 6.11342924501853, 6.085093632024215, 6.473963495770345, 5.8510460704063005, 7.198068830607567, 6.11328622604657, 6.60765605900797, 6.730287334985942, 5.905895874958942, 4.933914386325853, 5.437790822699554, 5.431719574166809, 5.687803452227462, 6.022022335074268, 5.368915403306709, 5.077394274420451, 5.717861645203091, 4.368946519626535, 4.422005459756203, 5.840042888108416, 5.566868744028017, 4.864151902402051, 4.588759127201057, 4.841086653445074, 4.9837636368433875, 5.22249774015095], K Nearest Labels: [2, 2, 1]
Distances: [7.172334643623881, 6.190765553510181, 6.162953144562564, 7.289731301657369, 5.208944495222318, 6.648418348080152, 6.371342451135352, 6.261671058206307, 6.435585273905867, 6.250776786262243, 7.176659989430638, 5.948476912197553, 5.878190707048278, 7.530800958340383, 8.025185674996303, 6.234411139865971, 6.248831076802854, 5.780004253809289, 7.38325299969291, 5.924385401751103, 6.9215449205866655, 5.123121875999468, 6.349199536025423, 5.5811500392814155, 5.833521385408889, 6.4761536138818165, 5.400424802216838, 5.301061375055905, 6.170006582598012, 6.038968221822314, 6.44840121488028, 6.367794219753182, 5.624387120554795, 6.5119854997522415, 5.460965881019

174, 5.553302277526431, 5.4554325837016036, 5.0351341539278085, 5.58644934192216, 6.7330725043636015, 6.088130368371369, 4.630998685777782, 6.56079173338363, 4.202211038721232, 5.570718868322019, 5.202295823625655, 6.348634246841048, 6.277872104539233, 5.662704595533816, 6.3531795726348514, 7.072873442201164, 6.724902145902958, 6.824819199401526, 6.055822309482931, 5.933433158270231, 6.1549581819550125, 6.304267134712915, 5.693417137378152, 6.543697273432653, 6.77564699635564, 4.976250170314892, 3.7725339702080793, 5.3051694787395425, 6.119686712215377, 5.322662448120933, 5.035356192177154, 6.6452596979591, 5.3657840500526905, 4.718350947437861, 8.175344519979106, 4.29809326848721, 6.606355335489593, 4.551320008318374, 7.9693580880369606, 5.92769432458817, 4.976537755521576, 5.79001720222776, 3.996115501452859, 6.738886354725118, 4.993084654594004, 6.121513301017306, 5.214067705185895, 5.323735780488424, 2.7885789350276617, 5.5162420778917, 5.565936676348854, 4.9245100390909435, 5.6336803192822105, 3.982967914961463, 5.0647137645683635, 4.272306409967964, 4.209997582716251, 4.0454046341459655, 5.425433530319116, 5.492753059033344, 8.198710642619048, 5.868245645499102, 5.6543673808331745, 5.990843223140848, 6.2667834305534065, 5.779641204220709, 5.125623246564576, 4.200321552802752, 4.469348866610961, 5.122975375810232, 4.2647587714460355, 4.668503080638322, 3.8740242591295933, 4.952501489817243, 5.911396448083747, 6.6579333660960005, 4.416021723980836, 4.749564956125537, 4.702104363440341, 4.470766560608805, 6.869020989212757, 5.116139018103905, 5.066897883233539, 3.3719180619413596, 4.598451105126987, 4.8151698195408175, 7.526946546638962, 4.700934203396953, 4.861315781967584, 5.998314971613159, 4.452645243252852, 4.325035889031929, 4.7683804795679885, 4.62584726458607, 3.166949021132382, 4.745306740405954, 3.3383343068088123, 3.389993044895884, 3.5411695817823543, 3.1190419268785727, 2.4659750443267496, 2.758694523579371, 3.082022326037928, 2.573419028995256, 2.797619583978494, 2.951741907514539, 3.1949937264869654, 3.4420604452090604], K Nearest Labels: [2, 2, 2]

Distances: [5.947140103624542, 5.430576826880588, 5.7131318588899624, 6.72668779186871, 4.104617717981266, 5.675072906808394, 5.256578394887542, 4.627097007100061, 5.380868818632473, 5.668997879802306, 6.186933180032532, 4.6033517428840565, 4.974279253197282, 6.64250987463927, 7.26744445909119, 4.864027907334186, 4.8745912030093175, 4.5999250165609125, 6.431311141684358, 5.006169514254687, 5.8306425111410745, 4.530134866778038, 5.299805576058476, 4.756412490392186, 4.807201237870935, 5.226684541845464, 4.747443763427606, 4.481048358466833, 4.795035332897572, 5.14610394176485, 5.588649971943044, 5.591976144048114, 4.274647712955201, 4.729462032742984, 4.008123475122823, 4.851730821643771, 4.122795419180474, 3.9848294327042617, 4.661838481065523, 5.822995783292264, 5.513125685338936, 4.388222119555942, 5.9821495397438955, 4.021101140154497, 5.335365107566018, 4.233335655327233, 5.633321497940062, 5.89844323161598, 4.7918793427611845, 5.6003964232814525, 6.91175035297545, 5.68669275354576, 6.249811578904119, 4.740413000546927, 4.978992407704578, 5.4574710680376395, 5.434205632283645, 4.904012811889525, 6.0753173309299715, 6.503600250350034, 3.743691032716414, 3.316740939602205, 4.058597715854497, 6.1880880406158925, 3.961939312471675, 4.4702538871535085, 6.765075193765765, 5.2849551098597125, 3.121829075428711, 7.087482090760653, 3.559449786148634, 5.767544056187766, 3.890759010367862, 6.902120527856801, 5.864717058367494, 4.5984998648046576, 5.380577813789386, 3.370367005429091, 5.9182471245471975, 4.577414832645289, 5.75296119719163, 4.781341087631018, 4.756305440004391, 3.0589637337960283, 5.657435695910267, 4.622877028878167, 4.1903260896472965, 5.026302490478133, 4.038202088682928, 5.083139599350444, 4.0443227280787655, 3.9443441619204602, 3.7947069109534053, 5.303745138988168, 5.462985329542986, 7.148726993039081, 4.882424726530994, 5.48098734504604, 6.278194446715708, 6.0867056764161935, 5.39697305358015, 4.616592221869114, 4.225136149384304, 4.907802813164507, 4.919302406243592, 4.240721893246958, 4.655677949809312, 3.7310321675044507, 5.24490841807133, 6.014680647375257, 7.499047942558949, 4.572251517866517, 3.766703786244301, 4.770155874836316, 4.599096398651537, 6.503593271210656, 5.2306929342704525, 4.429883685507792, 3.8779795767511915, 4.830411826708986, 5.393391291227569, 7.615698459210533, 4.559194138611356, 5.545824298158203, 6.8963976757503165, 4.942402104718456, 5.087420765468696, 4.902741967247549, 4.823534918765958, 4.0092450219265645, 3.7840995591798583, 2.905241027086805, 3.3507069900353783, 3.3361223177229364, 3.4519271548975743, 2.757527343408957, 3.06

51835950514164, 3.3657488980814723, 2.164081060687234, 2.0257398411843592, 1.975925741998125, 2.5602851107440996, 1.8392257595945896], K Nearest Labels: [2, 2, 2]

Distances: [6.495119104124296, 6.074320231184471, 5.952308179300218, 7.377508110696913, 4.234548853904818, 6.4125778736266525, 5.956871839069922, 5.31163471294273, 6.271687508688583, 6.291358962306487, 6.871762595602136, 5.449236647311758, 5.669212613417559, 7.31515284405488, 7.978196753013459, 5.595122436183881, 5.528506968851695, 5.126932295872606, 7.173253262558639, 5.658485481153988, 6.4070086548138345, 4.7369178657612085, 5.784722232829783, 5.07352830655143, 5.102833849657546, 5.000056234133189, 5.212983228217256, 5.129278191263395, 5.223574518202401, 5.765562040436014, 6.0089682005021, 6.22160419495231, 4.75695548814563, 5.168506137638255, 4.579158486082367, 5.210920086996304, 4.664183073809221, 4.546150073317249, 5.276500826848019, 6.486529373868844, 5.87798620359352, 4.876243806847874, 6.616817619183666, 4.350459920766134, 5.655994642103639, 4.9208868404250445, 6.307430268773047, 6.489025587460878, 5.380511096067294, 6.20664305930002, 7.438431512864616, 6.267400989949016, 6.869502936175947, 5.364818591418619, 5.656243073183997, 5.919596187728723, 6.102549843760061, 5.4551689106946855, 6.708336074112314, 7.002577515517529, 3.834807740481357, 3.5245446191375027, 4.780725144887148, 6.44288486072894, 3.9323307781136907, 4.5659732363273795, 7.106584719806114, 5.371644372223589, 3.629535842424856, 7.349569719484777, 3.501873843849721, 6.069233105487584, 4.1266711775616045, 6.979752990684347, 6.049324153959136, 4.682912917629608, 5.841794666481166, 3.0804358167348287, 6.0620204959547985, 4.372827415725003, 5.773528140179351, 5.00927420162295, 4.472496997531533, 2.4402432820324016, 5.494822415292642, 4.814679502134933, 3.933366246747881, 4.502798334242567, 3.398307581613383, 4.6891794678256575, 3.632738017732066, 3.248597610077633, 3.3231632802858093, 5.3230308297763544, 5.5899438334216045, 7.235633290503954, 4.89113497603198, 5.683623770265417, 6.493125090083782, 5.993371631936962, 5.635520659477892, 4.756855449977986, 3.957422276249003, 4.747688345664214, 4.893501804914875, 3.2741231446346575, 4.449532657395425, 3.25417683428365, 4.999481751709378, 5.744941815933976, 7.311659381023407, 4.603473506045214, 3.0918531284567505, 4.374194105594198, 4.151520312605828, 6.0977925589484565, 4.972546662345299, 4.217066414674202, 3.9519389276790973, 4.56977823771698, 5.046344483375581, 7.007183240099735, 3.8875213676284694, 5.491725772370503, 6.615737982458562, 4.634750007665437, 4.793854711894792, 3.8897641236455462, 4.357893232512694, 3.514913767065985, 4.353434315634942, 3.3680593166256654, 3.4402587611804445, 3.84120894451971, 3.2540232107773184, 2.441720359883024, 2.6179736538054525, 2.4929194853740357, 2.281203247429194, 1.4865254293521637, 1.382618661323186, 2.911540543295593, 1.7537641006362057], K Nearest Labels: [2, 2, 2]

Distances: [6.214673381653758, 5.247112901069276, 5.877958120540084, 7.040175276386697, 4.750068983890191, 6.110943548285893, 5.508502521495293, 5.152123212744504, 5.653954257326412, 5.795985026985689, 6.512274447235043, 4.886104049376823, 5.258004759757588, 7.1219137833566135, 7.571962385859304, 5.569879724762146, 5.542438333684138, 5.357965643934524, 7.009747162060777, 4.97514932446312, 6.062257499691738, 4.538234304543613, 5.492183578638902, 4.854631583964869, 5.186430816094474, 6.095450190425212, 4.964923075489703, 4.354933768723997, 5.650757217380354, 5.246955395813299, 6.179292839461691, 5.802110701136666, 4.77460335801234, 5.759238621721388, 4.415530166127067, 5.06894134547106, 4.609272655285296, 4.2311573805407905, 4.605316405450005, 5.8248205107526525, 5.6598382492019805, 4.1078203363493015, 6.056702561881248, 3.735612931504699, 5.121919975990441, 4.527612882104055, 5.872661679007395, 5.825023296960991, 5.176716315576452, 5.965187399119337, 6.628571399070491, 6.012770232428038, 6.610374050690772, 5.436278480505581, 4.898025111857197, 5.605325643318288, 5.656704038717513, 5.285366837441944, 6.179048656257682, 5.793751817436779, 4.289469834012615, 3.2933496229322246, 4.26307384817758, 6.229885256380128, 4.529623839280032, 4.668481162057503, 6.559813944874483, 5.036660491997192, 3.8406314338569545, 6.65576931147959, 2.7498271035663637, 6.451584541995045, 3.9291988873630737, 7.472799191562021, 5.672272609843366, 4.050854853708132, 5.030346749070466, 2.7534982207700605, 5.454014339672896, 4.982699758635148, 5.742752856411803, 4.6523655540715465, 5.113858792630544, 3.1562298804358426, 5.075402547212909, 4.670144257427673, 4.444198892823341, 5.430355771521383, 3.9334028717847507, 5.121018528923457, 3.8915241755443373, 3.911336675496905, 3.7449315080881753, 5.037205416

6246665, 5.226609715968398, 7.074148014673804, 4.394656161518699, 5.261446845301127, 6.167067131070792, 6.288769140134892, 5.010786264769004, 4.00456504465013, 3.9879502417027166, 4.370902224514994, 4.656157218280565, 4.260108922097954, 4.197947323322137, 3.4748371510229132, 4.740756340835904, 5.834730993975158, 6.761729419812649, 4.181334610776415, 4.406256487805135, 4.809845374135524, 4.704800091467077, 6.881819795503204, 4.640882443146591, 4.270480712194779, 2.863975288796093, 4.1350315594739495, 4.967121111268368, 8.034903643745007, 4.729272116950864, 5.067938167268808, 6.353348113298191, 4.611172603651758, 4.779915162962528, 5.281593853011514, 4.6604934087965635, 3.50432294496898, 2.894417758977553, 1.712131392668472, 2.4641488163168788, 2.3610479209356945, 3.2749739415996215, 2.509947033602647, 2.5899233579948224, 3.7041799144677925, 2.2875467344333558, 2.935139211767092, 2.292614014128099, 2.01449897236371, 2.7722064948792453], K Nearest Labels: [2, 2, 2]

Distances: [6.792466131947702, 6.183112899213956, 6.274191092997838, 7.176748507779751, 5.553575147207274, 6.441046103898658, 5.855576301603624, 5.881962798798062, 5.860227893683211, 5.857281946778766, 6.756808709609209, 5.159039771854649, 5.505965318416642, 7.312788371046976, 7.737592653311715, 5.8927607416056365, 5.822036576886786, 5.5626973440800604, 6.986711816907093, 5.912373491870345, 6.61321196297492, 5.442436421005659, 6.124727182955749, 5.57312918251429, 5.679262528657092, 6.731717102050756, 5.541450671189745, 5.043685594606491, 6.086668039167159, 5.623363629366616, 6.190666426591464, 5.9673848370918945, 5.418301024333477, 6.385467783706883, 5.165474416401411, 5.3502555330305315, 5.519102144988238, 4.95623419962054, 5.428254164934645, 6.822642545319174, 6.155178536594861, 4.7861918187491606, 6.537922794555677, 4.800943932308244, 5.760394230425054, 5.218476188885194, 6.367401829269564, 6.06768711299022, 5.269066872202475, 5.85662572169485, 6.888208815497506, 6.214312931802581, 6.993330665211448, 5.926119945621845, 5.5211760658558084, 5.896257814911902, 6.028421383351908, 5.781619630660855, 6.456694342415689, 6.774958086978255, 5.323790665221139, 3.902304199498737, 4.655035952444991, 6.535432973182032, 5.492791541678214, 5.288543157501137, 6.62655114203058, 5.215869722661857, 4.85643859137975, 7.86483473490693, 4.008511067719384, 6.363021367165364, 3.926670116074584, 7.9422489053072525, 6.413907418869757, 5.164142483514864, 5.279283183572481, 4.721221031830235, 6.683643658582138, 5.79749740316401, 6.321141856937789, 5.146451036725916, 5.481990893525701, 3.4120425060100112, 5.930720258497618, 5.4998979110664825, 5.048747763652039, 5.909143780689647, 4.812740644247754, 5.489999062440165, 4.763110483676512, 4.421726726771655, 4.119887226841898, 5.962917316048428, 6.218507797015938, 8.271106935733703, 5.9592834300201165, 5.966442761303335, 6.519435592321588, 7.004004940923906, 5.895831493038334, 4.784245164255582, 5.024483440368851, 5.279791495192738, 5.2150755708244425, 4.952659448127045, 4.781321807310141, 3.821304238382116, 5.456594159923733, 6.64619417047578, 7.687775076293672, 5.044878569229382, 5.4913212912954235, 5.495130363215989, 5.244787169273406, 7.493264372122948, 5.458439534371028, 5.214688538002169, 3.979279316507986, 5.40535822161223, 5.982465544501868, 8.345954581888373, 5.632337190150463, 5.852413123926918, 7.053899838437476, 5.329690837216132, 5.1244220562654865, 5.6284880620727575, 5.1337051176363, 4.570920026217562, 4.289433448440803, 2.9235276832371726, 2.675612381259224, 3.522369443959665, 3.6335353770878056, 2.849952451151031, 3.9134646813795433, 4.3562093301861555, 2.5889675455684267, 3.5117993961857654, 3.215574646967528, 2.4073767175134524, 3.254903267775195], K Nearest Labels: [2, 2, 2]

Distances: [7.247602595029954, 6.586074852899218, 6.5812467699325286, 7.879005995535881, 5.60490063927542, 7.030801220045803, 6.28922481654237, 6.291010276828394, 6.323024514099738, 6.631907336106062, 7.181360594333805, 5.715876890821988, 6.014917450709899, 7.54673266776055, 8.257787771386248, 6.538839082312775, 6.354758904032027, 6.115198183224527, 7.726279487493834, 6.244813298103955, 7.091216448444187, 5.333595141762321, 6.392576374270857, 5.934331668776342, 5.886011523555088, 6.716613325389548, 5.993041025773822, 5.461883177095566, 6.294333680696329, 6.0265545224942985, 6.681536655119721, 6.693912622712836, 5.494957302014488, 6.688248987290577, 5.560434805415837, 5.781715877911334, 5.937128930322529, 5.389313037290087, 5.773896574694676, 6.937256943613764, 6.601091448916993, 4.677257463097927, 7.15033683882572, 4.590056219717639, 6.184067962025832, 5.254356640801421, 6.415522841528584, 6.6807445971827875, 5.715794169365098, 6.608423346047153, 7.47593422581251

5, 6.7133093093632015, 7.579103354027123, 6.403728697772416, 6.213488810042829, 6.523373250328177, 6.639831395216835, 6.312840668447009, 7.2616771596299605, 6.926535289767751, 5.215684538752158, 4.2014268590608905, 4.948013043590526, 6.926130595138736, 5.361302117632943, 5.5997973525325, 7.010733519600083, 5.562616019156146, 5.024117714831557, 8.087381316459746, 4.109089651081801, 6.532814124057853, 4.18992593394671, 8.151624198343164, 6.885724735970334, 5.16003204891698, 5.699566846154212, 4.301529696116531, 6.8907419946916555, 5.107513450294545, 6.365795836803626, 5.340245028405437, 5.3715969711103995, 2.154901003565824, 6.31896190030963, 5.6607836975364965, 4.764663765177167, 5.696102703955502, 4.517789327462519, 5.288508646523736, 4.328286163327266, 4.206229225749088, 3.7206923556219125, 5.675258536992069, 6.39211379295313, 8.354283112458267, 6.169186033476576, 6.042849029724888, 6.966142604136898, 6.442540284493078, 5.913461629832324, 4.852889768670657, 4.9320153539278255, 5.125857429890827, 5.215250550853183, 4.161572888252685, 4.739828568189921, 3.57841136272055, 5.432489417436143, 6.807159140151396, 7.428993242154091, 4.9123178158261664, 5.073492529124424, 5.63529499744363, 5.250052192768563, 7.07521406363396, 5.413474122139518, 5.109863802340927, 3.4062480205689885, 4.711639650890517, 6.003247956075772, 8.516340375277233, 4.758611188559767, 4.942882548269401, 6.6875811181857925, 5.205131677263887, 5.319790952636695, 5.215657531084034, 4.954956875314119, 3.6667479107636587, 4.989334056575052, 3.347036961546018, 3.345753607427214, 3.76635569102939, 3.8424269004297913, 2.8704178983803055, 2.7255518343092704, 2.842334243439452, 1.5553368056849908, 3.1239040424431077, 2.8540816155877313, 2.7984340862538897, 2.689755454995525], K Nearest Labels: [2, 1, 2]
Distances: [6.320699567894302, 6.555877517345961, 5.657814829254492, 6.6909633252885525, 4.62892001408411, 6.020410933067863, 5.981135790606708, 5.467782483911204, 6.144287354412326, 5.986472972991622, 6.403425595549166, 5.47095714395825, 5.638874801249917, 7.203341607902879, 7.343905286960295, 5.252858520525646, 5.010854566424793, 4.88126907290081, 6.478472298575096, 5.5039724430226595, 6.252801242491787, 4.955397484077523, 6.230415133554321, 5.715540346432612, 5.6964216692754155, 5.5996813772984595, 5.615483834324991, 5.5458975624966556, 5.5579513605824635, 5.928820034531012, 5.602229831418944, 5.654186666210778, 5.298755387714925, 5.518089265622419, 4.846805586379078, 5.295937346185961, 5.139157398433371, 4.94088421488408, 5.8243397247925275, 6.188013126014733, 5.780910074079505, 5.112139674353542, 6.459401615538385, 4.713003149108836, 5.813504780909801, 4.876021680481638, 6.121283544856549, 6.199014689168057, 4.946634911077412, 5.499549630320264, 6.925204855401437, 6.0326815072658855, 6.613421349736416, 5.264873657589834, 5.448283524369375, 5.314242210535564, 5.755298038899401, 5.369214039668626, 6.134890004914251, 8.094280353702173, 5.774645705258193, 4.772294051450946, 5.626602761323277, 6.739737046382015, 5.466986619191534, 5.078816668714445, 7.327865149069358, 6.259300638868601, 5.26881890647971, 7.548832171521011, 4.593218335515444, 6.324652495954278, 4.898424790957248, 6.986358272278098, 6.460649220042259, 5.780954030611844, 6.338605838418841, 4.904654591133684, 6.412337186422331, 5.347712958972739, 6.896122779279463, 5.600216703016226, 5.894813781888227, 3.809534816564882, 6.123630119750052, 5.918177848318658, 5.338279916572078, 5.9354530206060465, 5.1995845150869915, 6.276975679656725, 5.413262517243767, 4.947993554564456, 5.055885199618215, 6.220809899355874, 6.321681512014713, 7.285353139914224, 5.33387597918179, 6.535372707766582, 6.749837539053709, 6.779968238147023, 6.417022808544643, 5.891171403396228, 5.2403355737593085, 6.0933909111290685, 5.99286794314548, 5.488130917937459, 5.6588364608517985, 4.7122790542493735, 6.111935396891975, 6.433524679294164, 7.396862386430318, 5.6839590831039875, 4.980999094862003, 5.753576006511584, 5.741965392078473, 7.477451001906851, 6.280076907587387, 5.437129302845909, 5.332060888837208, 5.9264436665711635, 5.94603669822051, 7.313458092428831, 5.097083710713542, 5.956507733937307, 6.942107595223884, 5.9167670452970365, 5.620772397759465, 5.337589771829519, 5.561198483135354, 4.939807485030718, 4.636836665390001, 3.5096962042534408, 3.595288099083049, 3.740121637695257, 4.649442522312764, 3.730671848925464, 4.168859043756119, 3.867571138232739, 3.690022278585967, 3.4168846288560872, 3.6535779313016907, 3.8452917313989223, 3.582178772271525], K Nearest Labels: [2, 2, 2]
Distances: [6.909157210488387, 5.8648643503284985, 6.188039317079522, 7.204074940898701, 5.654062161633496, 6.449373938452969, 5.925905504170971, 5.976577687198747, 6.062901932841137, 5.8464718223741174, 6.806753844442635, 5.

3082076277886125, 5.452110498286904, 7.368755613728054, 7.652503981827955, 5.823156032800964, 6.097004052053509, 5.752038595890546, 6.967698146702431, 5.781103640455152, 6.726505801469224, 5.208133413468337, 6.139913891999835, 5.430226748131709, 5.808316661224582, 6.964246590853203, 5.421155931665506, 4.960910179792296, 6.247259810683544, 5.701654897802591, 6.409223066423636, 5.964205797445537, 5.523544608018114, 6.539981122882194, 5.278963734466315, 5.472969899734493, 5.4429185523588135, 4.879806011826307, 5.28775485474389, 8, 6.730049571396872, 6.1600506422290175, 4.6234171102300765, 6.47702806089, 78235, 4.594269718133255, 5.653380774823931, 5.255818424157019, 6.355932873, 193654, 6.088866549427715, 5.470546304497129, 5.870947896813631, 6.57927891, 3453839, 6.249242402786141, 6.863162703740334, 5.915727775708783, 5.5592912, 23440158, 6.022694624479719, 6.153220393791143, 5.624999787509359, 6.434785, 863861125, 6.467848254056457, 5.142191349861566, 3.7718728839754116, 4.8735, 79370310154, 6.388411898945773, 5.406437043362344, 5.156825369179698, 6.524, 270820255443, 5.075521082127168, 5.004735027605839, 7.7958468944268065, 4.0, 32605275730914, 6.76359271397834, 4.435651383981521, 8.238100752035631, 6.2, 36580472011724, 4.7196713988933485, 5.272306735959557, 4.345189419199798, 6.595127735003387, 5.761737816362857, 6.191296500478054, 5.042332832267288, 5.537685331938471, 3.539083860821701, 5.760049500819694, 5.505288219866901, 5.104117177598468, 5.889983238330979, 4.554015701116332, 5.502426643712345, 4.6005570781716765, 4.415988133588419, 4.322696111961613, 5.72817593265622, 9, 5.830527644885432, 8.310955766820333, 5.885631013485385, 5.7368463572262, 59, 6.354254701425981, 6.783994314450388, 5.580633493382261, 4.791772288186, 816, 4.922374719787806, 5.061434872379301, 5.154516093576633, 5.01509479617, 2432, 4.630732487812754, 4.1073006774753935, 5.409758218630884, 6.438663352, 307999, 7.351786091273276, 5.011549991636524, 5.202017585862062, 5.30504322, 3529998, 5.215373247981806, 7.2432195693666745, 5.3218075682680395, 5.36953, 9242488594, 3.660907384450857, 5.0915831500748565, 5.595436142220643, 8.341, 734171626587, 5.685636572631626, 5.6976862784333635, 6.7473325960974755, 5.1723807174067415, 5.159902659097891, 5.782843563879598, 5.343933870256749, 4.215489844573006, 4.4137690995170855, 2.9240197859116472, 3.06652253180018, 8, 3.420628970633407, 3.500461540075343, 2.561104189151323, 3.5167453976421, 99, 4.220557710979126, 2.69545711253783, 3.6569237671123918, 3.309038424911, 1353, 2.581910182177611, 3.7096908691088664], K Nearest Labels: [2, 2, 2]
Distances: [6.0489262770504935, 6.346339218710729, 5.269698508370398, 6.484, 274234334725, 4.249201704740477, 5.875300681446837, 5.537068124638783, 5.11, 8520389813402, 5.863832410534007, 5.660010066201758, 6.153350715874389, 4.9, 810866152619555, 5.250400919896176, 7.07586207777438, 7.283137035828236, 5.1185388821639854, 4.663994165953636, 4.627596516371092, 6.43039123913262, 5.339537627459941, 6.0537493958951, 4.697017470837447, 5.763923621788351, 5.113560292769552, 5.0206302676781975, 5.020769027420942, 5.11227763960782, 6, 5.060008393067512, 5.1415426727229026, 5.464367264881483, 5.057152465628, 887, 5.32312091776108, 4.9588088378831126, 5.34865805905424, 4.271894431552, 557, 4.742404852077228, 4.755176533770299, 4.410083878389525, 5.49343918168, 9333, 6.250903946096872, 5.590980427998974, 4.897358044158165, 6.0568870302, 16371, 4.634597937023602, 5.489161180561068, 4.783009886421796, 6.039668573, 10513, 5.889640930134552, 4.613468978209562, 5.443267637122033, 6.805938469, 013034, 5.5511917344152515, 6.550405005419222, 5.062549800480847, 5.1244114, 28988916, 4.869788436293247, 5.521484099106744, 5.074990392081684, 5.796526, 995272947, 7.929667158031986, 5.646212420719651, 4.740730139889505, 5.27644, 7795799734, 6.4022405313257265, 5.201543324973616, 4.648371491825622, 7.072, 013146578111, 5.774010319216772, 4.927488087535032, 7.38076646098514, 3.882, 7534150764773, 5.648964065003163, 4.047070395932643, 6.506361099016126, 5.8, 4932018244137, 5.680775075698279, 6.032075487446603, 4.734239999144968, 6.2, 16323393767, 5.186883893529709, 6.492852972269063, 5.096807269445995, 5.119, 814739866198, 3.6460897435015593, 5.300787816530089, 5.377718107039766, 4.8, 06391576360652, 5.264789348657259, 4.577403592535893, 5.459555547709623, 4.910470813835975, 4.248462866381854, 4.403514788262531, 5.878239983753137, 6.0409741678896856, 7.122156476506158, 4.749736654270203, 6.21813737027027, 1, 6.387455796590721, 6.715796092185021, 6.251021062786162, 5.2873902407356, 48, 4.6308297572538235, 5.659627495243999, 5.40697736431227, 5.024347881402, 4405, 5.07366028301544, 3.8934143505333045, 5.577607516169146, 5.7422637931, 1596, 7.283020125239695, 5.143473169483889, 4.79285992365824, 5.14459460530, 6375, 5.030864537933356, 7.25670441539265, 5.609541119099021, 4.82687774697

6152, 5.158807974263894, 5.563915271203403, 5.475793363858156, 6.958339122429397, 4.6793759474295635, 5.885908615399929, 6.592737589040953, 5.398544903572032, 4.9792665421187765, 4.627728270105823, 4.756928701174291, 4.594310235345756, 4.125479421803569, 3.1495433191076194, 2.7968639577646157, 3.511537125777149, 4.252028798253949, 3.742004216030284, 4.138001383682221, 4.099913405390911, 3.7021230679586217, 3.0301930657602782, 3.0572126332542644, 3.175082421526028, 3.0301114919918217], K Nearest Labels: [2, 2, 2]
Distances: [6.621592580900693, 6.92139388331757, 5.918032826128938, 6.832322881956432, 4.493668901161201, 6.564426248799266, 6.367139112838785, 5.512091793054686, 6.745059812903451, 6.370179696897884, 6.811690391586077, 5.9985283822693365, 6.162567890970171, 8.050656029978464, 8.060725944249976, 5.687830988491877, 5.31914182828109, 5.4342654618544435, 7.132321310586742, 5.240009022758727, 6.537156270654598, 4.622371142416952, 6.35747787217557, 5.7468248869888345, 5.595011740942896, 5.368685305837641, 5.752118189754009, 5.930620591673995, 5.683956184957119, 6.2934081510703, 5.883361590675523, 6.054417499053202, 5.9919882473506005, 6.030518649490133, 4.963134992040072, 5.398600404011302, 5.298562334318267, 5.218598057581704, 6.347165334402983, 5.9544879593376345, 6.241392182790663, 5.102474528650516, 6.300849003722837, 4.601556818457896, 6.127877106044262, 4.548634025201216, 6.229933430701726, 6.524026971934588, 5.534551031118898, 6.2921216447015835, 7.641166634702288, 6.367873246220628, 6.977930255335321, 5.727946122139964, 5.690855736508485, 5.481223365055348, 6.073498013327086, 5.618741070100858, 6.288864927650963, 8.751295439548928, 6.760564241544085, 5.889509780008968, 6.250178498533706, 6.933398391248706, 6.0437734629198765, 5.711115780336428, 8.006249074269345, 6.634123091029607, 5.932602230450576, 8.036329486339598, 5.223766658845779, 6.125421632547405, 4.891712950387363, 6.611412542768848, 6.222323187657395, 6.52153905479647, 7.098530024727243, 5.171859601567854, 7.30519965666962, 5.308624377601792, 7.314794064671281, 5.930551200614259, 6.174047460427726, 4.575354962009841, 6.090280472005814, 6.260117750727565, 5.9150020294588925, 6.00246117559707, 5.488665570149441, 6.4418942118934295, 6.127068759015232, 5.581233367832614, 5.958550438750036, 6.223713822281852, 6.186296781751305, 7.77774899777407, 4.802436250912314, 7.040757399265698, 7.018956903365188, 7.32697149513994, 6.931752425206754, 6.368770790587451, 4.863627580922393, 6.454609709652301, 6.254406554818573, 5.973090067019821, 6.116018189211981, 5.296095657568413, 6.578681288404037, 6.36012092911456, 7.509273948553313, 5.437849795088014, 5.384612999299585, 6.112281267011463, 5.695744104838248, 8.165182632623383, 6.43745777173736, 5.59938542630549, 5.6876271361140756, 6.069572677940395, 5.735993880347437, 6.910478395191294, 4.37973019411867, 5.419845469201708, 6.4572777435935835, 5.897482664268334, 5.724407966544039, 5.429922747447057, 5.660614392396521, 4.668591495371939, 4.827885887746754, 3.456227633703263, 3.5792816122343747, 3.273679132625998, 5.781378577692352, 5.052770010109165, 4.288713682827143, 3.915893950733544, 4.610443586642099, 3.565389488141367, 3.848923924689981, 4.064529470162823, 3.5534595291474194], K Nearest Labels: [2, 2, 2]
Distances: [7.034649543076, 5.678650787467184, 6.489049966151427, 7.8422154671644195, 5.409523031193687, 6.953878052735678, 6.226638770860448, 5.992421292165018, 6.407926058273762, 6.311120930415545, 7.280268659174566, 5.529273212088441, 5.830046939798351, 7.848634051354448, 8.355841512575974, 6.265722597369335, 6.461885479011217, 6.105520207194653, 7.7710479028658686, 5.724762816060243, 6.782923997444256, 5.056828159490149, 6.025522013208901, 5.136858210616959, 5.5824475283909125, 6.627522447487831, 5.468018450240823, 4.840054662988803, 6.275092652374382, 5.821004128311624, 6.8080812160769035, 6.478996072979624, 5.434580468548401, 6.556160838513159, 5.102068565532283, 5.5505985655340275, 5.185123252086183, 4.706970361853557, 4.998360932939761, 6.751977321774112, 6.307159897045595, 4.673468474154575, 6.66037096081785, 4.386488863111066, 5.597156051467005, 5.448767285865637, 6.6937807896442765, 6.4113806113636, 5.936870410567089, 6.657480284725285, 7.06926637142648, 6.596086882250264, 7.294420260064675, 6.242782448147581, 5.622762390998812, 6.309954295257076, 6.437666371266818, 5.90338988648604, 6.854457644032209, 5.517932889804855, 4.208766147086375, 3.147148328289562, 4.450235622075518, 6.236500254842583, 4.4498187930588555, 4.87149818662932, 6.638552654347216, 4.671089675471961, 4.193979265673818, 7.085068584569532, 2.8026557039850917, 6.690331258698939, 3.9225155690639486, 7.996847965316269, 5.763382805682154, 3.7152642505899283, 4.946974226476312, 2.7102807763146424, 5.9

49565987437296, 5.32194640129188, 5.464790481281719, 4.747894623237811, 4.81468219512951, 3.326297045235451, 4.9926843176141835, 4.694295744526012, 4.2669164617555815, 5.126384894865108, 3.5628630282942124, 4.719206988551642, 3.5669195948816306, 3.4875172161240124, 3.4986525474136014, 5.026043630693341, 5.090701597940549, 7.791626230461506, 4.670652928864109, 5.180345338000798, 6.26539902978011, 6.484615341220692, 5.007553854286874, 3.792395141448891, 3.9809399753050143, 4.015889060285164, 4.548079020593762, 4.046957124924219, 3.8911315863825378, 3.267497532431713, 4.5928562905088075, 5.866526571720213, 7.009168070513537, 4.063729051787508, 4.389242846070635, 4.4061610603692385, 4.356424208846315, 6.616911693804053, 4.256004405753034, 4.3002422756302945, 2.5498684802844074, 4.064119717974961, 4.916053169182994, 8.16631165475208, 4.920017426257524, 5.392741638227841, 6.418475312983576, 4.3657550020677975, 4.677816033500467, 5.115670260570284, 4.517163973533736, 3.3410712836500887, 3.299060451784104, 1.9745756521396793, 2.3097769175562552, 2.676753272329495, 3.0053909691016973, 2.3950807245951298, 2.539392916771117, 3.864099425732598, 2.5240019182185227, 3.0901769787050335, 2.3201362863116555, 2.074910649164104, 2.9993692329363735], K Nearest Labels: [2, 2, 2]

Distances: [7.609047130255712, 6.434186709622531, 7.067098923394877, 7.991604145621479, 6.255262100653699, 7.20860697659566, 6.668322626495195, 6.687760796898723, 6.70718976740672, 6.53279913230486, 7.774514739005912, 6.0518511167566835, 6.251305995384567, 8.040211066197243, 8.542466005887352, 6.652329179574109, 6.865018297054902, 6.394264946296697, 7.812702836990767, 6.602196749696351, 7.365994655124698, 6.134366366847555, 6.802716167170156, 6.045853992044346, 6.407884946269604, 7.438927182573666, 6.00291237692436, 5.626447583096526, 6.886744149680314, 6.382465196398459, 7.207324708159537, 6.857661697036277, 6.157920378676717, 7.07694346076569, 5.969264606184057, 6.161215342392718, 5.957857818028642, 5.548587916379864, 5.869469757434099, 7.559956218784188, 6.750071978552821, 5.528256776378998, 7.157475421822369, 5.356895474892732, 6.241050187699879, 6.122341531723552, 7.265738090953927, 6.7676405758610665, 6.279851457547261, 6.697484945750315, 7.442150002487522, 7.120196913230732, 7.525154103750836, 6.663513647598705, 6.233214367235983, 6.845173652223047, 6.813413531077801, 6.392489048255829, 7.165695243254228, 6.356987597492602, 4.95045517566495, 3.4455917101363367, 5.1134400848164985, 6.842762181698024, 5.588383960596574, 5.637458192694219, 6.928793532304086, 5.3085079759390785, 4.843414544267341, 8.361172734617867, 4.287259254188691, 7.284446445673901, 4.66655672210945, 8.890528842034158, 6.754615986052389, 4.973368019919251, 5.516718718907669, 4.565167370559873, 7.018775892264925, 6.408567761161141, 6.420652151640918, 5.6438920435139615, 5.780717750737485, 3.8304353204364436, 6.062029819394673, 5.793439668214139, 5.383971073925505, 6.214267376170527, 4.752255491252333, 5.6289789205736716, 4.67320505993617, 4.459961725701874, 4.184349615263725, 6.273000926856698, 6.27835861179427, 8.919197165826388, 6.3657219015045206, 6.097294930785646, 6.789363633016478, 7.41250349483625, 6.120166179252959, 4.991661917969648, 5.191068405324674, 5.1435768894266625, 5.523301633599315, 4.893668106372866, 4.8800282397679196, 4.122861543311364, 5.502230224539283, 6.893065663018034, 8.035167878419031, 5.2781519250520645, 5.450202268907507, 5.333658251471256, 5.19264395542745, 7.574719011583578, 5.508121856282225, 5.605875932062645, 3.6244335943917574, 5.570829777907297, 6.021267501562619, 8.64832444251774, 6.18665437246745, 6.432255389121238, 7.43967645659004, 5.3425750236432075, 5.222095224529161, 5.878930041643055, 5.471909049065352, 4.694818576584354, 4.536026342885886, 3.3121398003525786, 3.143441111619581, 4.0425837380838106, 3.044720752588617, 2.2165397901051946, 3.813847583662852, 4.597502645895163, 2.7652007258223743, 3.7995350005323547, 3.2575011980959805, 2.764078304814713, 3.7709716819459804], K Nearest Labels: [2, 2, 2]

Distances: [6.360782871374365, 5.971546644058431, 5.879301166022945, 6.597223771266317, 5.220928154780963, 5.9074649929754965, 5.38336191741574, 5.541889413832487, 5.4371690847583904, 5.523148634593326, 6.495756512802125, 4.966175245795013, 5.194065160779758, 6.720877545239363, 7.181737608143602, 5.53967127160281, 5.359122917723611, 5.176901193679439, 6.552856967807907, 5.596281851916995, 6.29232499280548, 5.301242686689287, 5.9084044682767285, 5.444548268579547, 5.50744565739598, 6.440029699233509, 5.102182296046264, 4.998348226966375, 5.712340949549118, 5.3436030075404215, 5.872787688133283, 5.7313021588720385, 5.185831646768291, 6.029381582083267, 4.926531991399

109, 5.196389371150747, 5.083391537465058, 4.787623194916935, 5.42892596131
1417, 6.377456718446978, 5.743579169754733, 4.851676117526633, 6.0625097573
10088, 4.670693053854602, 5.56341760311818, 4.956049612285317, 6.0044287526
16467, 5.750496219550724, 4.89143908542532, 5.527454896549616, 6.6474508487
16904, 5.898710623274635, 6.456497498467628, 5.442491537594223, 5.272022251
033735, 5.594107977017225, 5.5851755147601985, 5.365514907695325, 5.9815819
91623767, 7.116386510498936, 5.434068838211586, 4.1402851983247455, 4.94287
8299829717, 6.550047656351767, 5.7043756350223145, 5.142460980355487, 6.608
562472892068, 5.617560799866912, 4.701149558973182, 8.063299374641884, 4.40
921433501708, 6.335823398820019, 4.3320488929011365, 7.9997750793726645, 6.
430322204851812, 5.630923142806562, 5.592226454504219, 5.04472012323409, 6.
6464658642236225, 5.891926448228407, 6.629839457549877, 5.283177581833049,
5.777875860656741, 3.6563910591753883, 5.792911672150139, 5.61859429524972
9, 5.44121599999514, 6.277788734809686, 5.049450298534638, 5.77347476263985
9, 4.957722431006014, 4.725469430894552, 4.348344680698412, 6.1029598778169
33, 6.368150695873443, 8.159074518052762, 6.118993778904917, 6.105798635111
79, 6.4534333064737766, 7.011567663461238, 6.300569569621389, 5.21547633073
7016, 5.0642570234165065, 5.604764904758727, 5.508241625744278, 5.162930093
478193, 5.072708953951933, 4.1442370942545335, 5.58462961946794, 6.49072934
9565454, 7.725410629580114, 5.299609031524055, 5.534178324668521, 5.6211094
18024481, 5.359794793942191, 7.793942283216683, 5.834435123747291, 5.516908
677786756, 4.309294214363064, 5.703523639752081, 5.9721349605117995, 8.2091
39919756637, 5.8066843390366225, 6.006169592084826, 7.050785904102189, 5.52
4633821525401, 5.091233109093976, 5.798695631953034, 5.343855682440318, 4.8
66941577557889, 4.4496963258499544, 3.3818506463664777, 3.3496861394639983,
4.015058081529355, 3.5535275918491602, 3.030708881499351, 4.26807072720365
2, 4.6463401074175925, 2.88473985880491, 3.640483158664341, 3.2633524508856
904, 2.7305593738957925, 3.4642685974263077], K Nearest Labels: [2, 2, 2]
Distances: [7.226416655642054, 6.7122491472694605, 6.545884276426182, 7.501
526015649091, 5.600390278947474, 6.813117209436469, 6.342853746751353, 6.15
3403193076454, 6.554462693113605, 6.782001463249569, 7.218450788642432, 6.0
83125845271644, 6.191202380514348, 7.622663351988093, 8.083595838358075, 6.
435498390938057, 6.24240752935663, 6.15144941181012, 7.517112669404329, 6.0
276271322241195, 7.217441479694882, 5.284611496629449, 6.640249714506189,
6.258176557785947, 6.284730273555629, 6.7972957137839956, 5.96220880212837
4, 5.813641466948004, 6.436843024459959, 6.3487468249378525, 6.855235335902
802, 6.707929156364932, 5.905694093705323, 6.64519506973428, 5.749124831817
3405, 6.1186595674208535, 5.963211706278383, 5.677491684018775, 6.257807353
100473, 6.47853166568609, 6.669832873182856, 4.764289979077311, 6.990971846
546869, 4.48882605761612, 6.397125605955766, 4.826334668836098, 6.233272903
034393, 6.821679897709994, 5.8972135603017914, 6.6236872470630646, 7.651125
497496826, 6.911740041852843, 7.324480592462516, 6.20498573979792, 6.286920
9018309515, 6.597535083466479, 6.629312326807008, 6.171534999255859, 7.1053
12864480198, 7.792666076631953, 5.960264890775566, 5.077629913650724, 5.951
1096753782, 7.531331685420112, 6.252833821863213, 6.155597343231048, 7.7294
7168363643, 6.58506146061836, 5.54526250990315, 8.6481842047785, 5.08841691
6393658, 7.267224890499642, 5.3521593332105635, 8.438713832673105, 7.270058
559441204, 6.114501605949142, 6.794932931204236, 4.870861008365206, 7.40865
7502169314, 5.514554183718433, 7.421234620014216, 6.086293659612625, 6.4757
40488884511, 3.128481614568302, 6.867771398158081, 6.555260196925845, 5.970
310072698962, 6.663633554538431, 5.330500135474061, 6.373179323009036, 5.42
6003185430885, 5.417122481979225, 5.08393749790553, 6.348006170315392, 6.89
06782337769314, 8.575240365021097, 6.49228391010014, 6.881384335790506, 7.4
30429878212796, 7.015680318204286, 6.699668356638243, 6.046769135268392, 5.
3862141527499565, 6.092154678007868, 6.1346573572244125, 5.151082745938424
5, 5.784931580698498, 4.904916573978472, 6.379921137182062, 7.2010513581881
09, 7.628269575775411, 5.6833803683293995, 5.434954462368393, 6.49397311336
0817, 6.035789210164914, 8.060937951254868, 6.441490130185376, 6.0983950896
70187, 4.183826501661119, 5.434454082336995, 6.255939363821268, 8.534733424
806541, 5.075841935864006, 4.994383861183571, 6.854369595198069, 5.92679052
2450363, 5.97294601151135, 5.981967004100114, 5.983510340252095, 4.08728899
1214859, 5.512234749577935, 3.8781912429691467, 4.237234497843354, 4.086970
88911572, 4.676062677515393, 3.523793616262957, 2.858983478479179, 2.789534
020645157, 2.581652731047288, 3.615617480588658, 3.409489477791011, 3.52194

94435438725, 3.4191288395278225], K Nearest Labels: [2, 2, 2]
Distances: [6.296512701263164, 6.108392594822019, 5.464903890402558, 6.6475
826280380295, 4.439879698036375, 5.954626534877352, 5.6361645152425774, 5.3
07446783706879, 5.800050229107191, 5.844873139017373, 6.249203690110622, 5.
105621862386589, 5.303604987219158, 7.026267893477933, 7.355569742606556,
5.438491611841283, 5.06189992481369, 4.957663164048384, 6.660736832986283,
5.274173692667604, 6.222516165376954, 4.532526889672525, 5.814900054433319,
5.24332308487958, 5.257560812408279, 5.571615448184986, 5.142667507785249,
4.854716355976226, 5.435585140571202, 5.472074899781615, 5.506353734644061,
5.548362021830176, 4.925011968419827, 5.629126454111293, 4.533620261268002,
4.950156917138603, 4.965611205960696, 4.4856245452750825, 5.29754153586701
9, 6.014600873426446, 5.661717565049655, 4.250731880799302, 6.1681749712050
74, 3.9611383644638463, 5.364059761190263, 4.393317466235393, 5.71769091131
63745, 5.883409749545934, 4.765064450619949, 5.667163830538082, 6.764153343
049794, 5.890762877762443, 6.551684403451439, 5.257596637134167, 5.23086722
7218442, 5.213620854072069, 5.63590169358313, 5.199729102217341, 6.00557965
7825913, 7.29991878378856, 5.2864786741455045, 4.2936996228980995, 5.055711
289625566, 6.355708050790107, 5.198525817424851, 4.815664045151327, 6.88294
1263545143, 5.680058760381083, 4.6818850730262875, 7.394778256243907, 3.712
3762407404826, 6.023618683854852, 4.1247778752631055, 6.947935463011272, 5.
882331986780668, 5.253357809869725, 5.843522247340164, 4.1166889767184225,
6.152340050113658, 4.720686613291852, 6.378688875920083, 5.02668512852317,
5.248212424360284, 2.7380806584269735, 5.530149404265467, 5.40993377200951
3, 4.727314167071178, 5.469895648572442, 4.333803421346184, 5.3550640816842
46, 4.567509380162911, 4.274134834817304, 4.1520832998542145, 5.52080165889
544, 5.823086542012552, 7.218924786696055, 4.993425796101896, 5.92959642643
9848, 6.2802110831365985, 6.28657459934309, 5.821974689654188, 5.0462806990
85868, 4.399761778369965, 5.10594803497881, 5.18284845228139, 4.62880598013
9269, 4.881927446878209, 3.7683619878658186, 5.301178407780241, 5.913901638
774255, 6.710052372744755, 4.705846645831077, 4.725227582177178, 5.17840399
4588324, 4.998706881585867, 7.09773253525716, 5.3790754804005845, 4.7769362
78967295, 4.149174441650946, 4.8135869226323695, 5.235093010789797, 7.44124
92082347965, 4.314868403410592, 4.899478109309274, 6.178391727286864, 5.041
618375478813, 4.849006774506628, 4.7446484689671005, 4.684467402932626, 3.6
645261675346332, 4.1060348363600125, 2.7365539401731493, 2.774957907199878,
2.90331538639561, 3.8332913632176395, 3.046745593148786, 2.926476686353353,
2.978901584799463, 2.6285277786915264, 2.58975733335468, 2.74385566259653,
2.8409648578016147, 2.745809896652242], K Nearest Labels: [2, 2, 2]
Distances: [6.490941295140659, 6.396899686036748, 6.253677232699338, 6.8888
548370708325, 5.492767226734038, 6.250459549364805, 6.224681775613276, 5.76
14030072640325, 6.316188000913498, 6.274938527432738, 6.77396932890511, 5.8
4935272796254, 6.074200520569642, 7.584539016543609, 7.578532053278531, 5.9
50070354811825, 5.690328667499134, 5.642412872921058, 6.9260153556489925,
5.658918636356604, 6.445885232055818, 5.450827389637339, 6.530301392670599,
6.189903536235778, 6.415657847428341, 6.765882057393647, 5.991269714123200
5, 5.574599061637091, 6.472799763305785, 6.12346810043363, 6.56738039141324
1, 6.022894445453823, 5.770901416217197, 6.126793915427951, 5.4580367634420
26, 5.875249987911641, 5.765149721943682, 5.507913352673244, 5.943288702584
335, 6.074955571659625, 5.9703934099855385, 5.068568447351381, 6.7337875815
85994, 4.643217705058292, 5.789551479349521, 4.937971539724147, 6.257236906
649115, 6.276333232540005, 5.500929759137813, 5.866245657239379, 6.97239236
1651269, 6.704171690085463, 6.808733824533097, 5.773432190887706, 5.4258886
22845226, 5.775524930453297, 5.893119787547293, 5.9108772420474525, 6.42276
2175136205, 7.518940381831929, 6.031380929092942, 4.749906346350962, 5.8586
50618080741, 7.3219579510064134, 6.295539642997374, 5.864735903991473, 7.46
9774101291914, 6.572690414070545, 5.4609027080049515, 7.24912473792644, 4.6
16801650210741, 7.578638044791634, 5.566814218449372, 7.817677517243341, 6.
80744745861908, 5.789795534338999, 6.440276637425934, 4.751624042717708, 6.
105412443547413, 6.013985610871884, 7.39792766551223, 6.070401306120221, 6.
891393083111413, 4.256965075518703, 6.527685545049257, 6.385528485415903,
6.1617316667622575, 7.0084826228291295, 5.764882274134575, 6.94080985006305
1, 5.872150990487895, 5.662870805916637, 5.5503871755262235, 6.596746666312
426, 6.7002260051306015, 7.229350203986756, 5.65332775258962, 6.81380994199
0302, 7.126817520795146, 7.3417176194996125, 6.359557260291387, 5.934759314

629777, 5.595524122858517, 6.124916317611402, 6.215934313051728, 5.81612815
710858, 5.957436092369711, 5.241348482341562, 6.185758607390341, 7.07264364
061954, 7.121419174682495, 5.975957962644352, 5.886753713009906, 6.50779902
4871188, 6.438557439460885, 8.274105716029528, 6.432434291768234, 5.8584844
87467075, 4.916992174232873, 5.839320453585832, 6.200270723234129, 8.389039
368690437, 5.869516873079475, 5.925336320373067, 7.222844007667576, 6.20983
8656451532, 6.031957572923337, 6.450777810514194, 6.188799509733135, 5.1796
64792532314, 4.436700380349804, 3.5350722684300537, 3.9270242570000966, 3.7
64141154356727, 4.727561230321529, 3.525494848001386, 4.206955341332632, 4.
373543230669086, 3.646167619823837, 4.209306216559985, 4.171967450278835,
3.8765246097850636, 4.425499648123032], K Nearest Labels: [2, 2, 2]
Distances: [6.078780909740053, 6.094927142155376, 5.851793305372056, 6.6266
37281733679, 4.949587706284372, 5.817360529421111, 5.827336235383933, 5.370
791168628756, 5.970150976378938, 5.935317489643266, 6.560641445877666, 5.43
98156496010435, 5.665186900113845, 7.100074707138455, 7.272789974821001, 5.
521903718765568, 5.1930429636002895, 4.998679608626712, 6.564744085830855,
5.652930686601154, 6.0984829120304935, 5.443456927958518, 6.15198355158130
6, 5.703780207438631, 5.941497508270779, 6.011251959647799, 5.4544602709228
8, 5.2012672102022615, 5.903598982537085, 5.7517855088211105, 6.03431216519
7208, 5.70675973084781, 5.155058352156647, 5.35687990584243, 4.922698938984
115, 5.473569143117912, 5.118151740656526, 4.965275632161527, 5.52393339796
1674, 6.230149131753867, 5.482095360960229, 5.250168409562791, 6.4690485849
82585, 4.746604773966675, 5.4072640455513845, 5.099288780893079, 6.28537883
0413899, 6.018248658692429, 5.085504845717036, 5.524450766675811, 6.7853281
08961922, 6.315572098690333, 6.424040703169442, 5.206121057358434, 5.122483
850659587, 5.4082955228159895, 5.536626502940272, 5.456124348753845, 6.0654
43832402707, 7.25333783689652, 5.100114794859518, 3.9895347490731736, 5.444
57596751396, 6.939802667222613, 5.579641553504671, 5.099391146244372, 7.128
5825877671645, 6.2010530982569465, 4.468369772785744, 6.962383314959926, 3.
9360703180444645, 7.169258835334196, 5.192403075492192, 7.426713065149328,
6.3837502681465415, 5.444637739295309, 6.096441762515983, 4.37499288930907
1, 5.44492176265844, 5.823417986042083, 6.890957880995297, 5.70366712114895
25, 6.178011828708315, 3.944489497821981, 5.866250318888957, 5.771096182235
144, 5.507795144849113, 6.393932259435451, 5.077180469543082, 6.28700519945
2827, 5.128726056400173, 4.830661745841507, 4.667883874817535, 6.4113107429
27401, 6.4459544471900045, 6.69659932450879, 5.320182497117174, 6.387415805
499975, 6.689069057266091, 7.016563734874416, 6.178048835879634, 5.49835806
90944915, 5.171639910248198, 5.654906071807454, 5.806307120954099, 5.111695
656103417, 5.457025903741796, 4.508993054119795, 5.564640297302054, 6.42178
5801408043, 7.144056788981903, 5.740562749517902, 5.157436611741463, 5.6444
68591240462, 5.73226029984252, 7.64164527803595, 5.963837470222347, 5.29322
6109991752, 4.878287293684821, 5.687767883586469, 5.791097592246114, 7.8086
07137548584, 5.74143545151112, 6.3974948966991745, 7.295906147411421, 5.792
55731797201, 5.423266984057281, 5.657490810645208, 5.55040904678907, 5.1605
97852376746, 3.9840746197561123, 3.618882385416495, 3.734282967816205, 4.12
4160402523066, 3.6473752535223856, 2.713015988009316, 4.255757699120574, 4.
487736188726666, 3.426747776472533, 3.623157048259228, 3.513774071102839,
3.5986425261942947, 4.0109385859628075], K Nearest Labels: [2, 2, 2]
Distances: [7.18442107269337, 7.367719216855416, 6.353885028630744, 7.27519
6727896956, 5.135208860676511, 6.761643051205151, 6.53466797524412, 6.24851
040746794, 6.709952523723941, 6.762192635754292, 7.31155757642345, 6.297949
827265422, 6.3573711559628805, 7.624652124584073, 8.135961664188741, 6.3018
802348201035, 5.790210635489321, 5.649953710362506, 7.367576763570939, 6.35
0743944771173, 7.170443989539404, 5.617801647968205, 6.8695656382397505, 6.
41529954693958, 6.165142945134152, 5.932641686687873, 6.017736757131818, 6.
309366219905988, 6.051049451098003, 6.558432052817363, 6.269692901213119,
6.670843717599327, 5.994810405154536, 6.291090960379123, 5.683681320018885,
5.961248515036282, 5.850497734310255, 5.7588196726266165, 6.734763127874014
5, 6.88403204572234, 6.521842331815737, 5.584594583493657, 7.00522563140032
5, 5.131045482645882, 6.557636603512074, 5.269171743223631, 6.5849730830965
63, 6.897773499569467, 5.664933860137763, 6.496441998298273, 7.980699806883
958, 6.859859523381931, 7.252703655479877, 6.048824454510848, 6.45467822974
4029, 6.274992169253137, 6.521364248360239, 6.106763621285465, 6.9040795337
12842, 8.799157343389219, 6.278683668451759, 5.375562406057369, 6.329146155

```
314135, 7.408980637469532, 6.27819424683284, 5.923506095253084, 7.934585869
804384, 6.900095736552468, 5.579990645488233, 9.07974461817636, 5.502163641
545862, 6.6071788927459085, 5.222939880142909, 7.835554565555825, 7.2307832
45265667, 6.842681326176844, 7.2030400368006315, 5.658950142844716, 7.69639
9192122451, 5.6119073029781035, 7.606895981930667, 6.342670923791257, 6.273
265521325951, 3.410042328987372, 6.73170352999161, 6.6825868403161435, 5.96
10374308388545, 6.437183532434583, 5.4789823236288075, 6.349466811766673,
5.707519151657668, 5.320748143982422, 5.091687409516176, 6.765156503007047,
7.143003061403029, 8.555179654847365, 6.557509259887871, 7.238055047778105,
7.348259684733315, 7.247256763752016, 7.438435893070552, 6.598162964058511
5, 5.453256273078669, 6.500129975301274, 6.500355739584722, 5.2692336638656
405, 6.150716750197368, 4.848606755181623, 6.5155802270183, 6.9518262257845
524, 8.024879721181126, 5.954504686808437, 5.4246491514278095, 6.2225155358
08443, 5.774257108084506, 8.122037516568426, 6.800419881614593, 6.107819126
042408, 5.352493307104278, 6.292223833898591, 6.379068168208667, 7.54066051
3379065, 4.986403402724743, 5.813020818370316, 7.107181411629485, 6.0992868
53602044, 5.652130317364886, 5.193867016945064, 5.677773582516674, 4.814272
8040077545, 5.74944400661723, 4.393213404698921, 4.214566811012192, 4.67403
7453336736, 4.70097877193051, 3.938054819352002, 4.002209871162999, 3.24963
05089060136, 3.4448252466632705, 3.267106940126743, 3.4695433131634306, 4.0
671384536964785, 3.257671079984141], K Nearest Labels: [2, 2, 2]
```

```
In [67]: # Eval of model's overall performance
from sklearn.metrics import accuracy_score

accuracy = accuracy_score(y_test, predictions)
print("Test Accuracy:", accuracy)
```

Test Accuracy: 0.9714285714285714

Algorithm No.2 - Linear Regression Implemenation

Linear Regression is a straightforward approach for modeling the relationship between dependent and independent variables. We will train a Linear Regression model on the Wine dataset to predict quality ratings then compare performance to that of the kNN algorithm. For this implementation we will utilize libraries.

```
In [69]: # importing necessary libraries to implement algorithm

from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score
from sklearn.model_selection import cross_val_score
```

Training the Linear Regression Model

Here, we initiate and train our Linear Regression model using the training dataset. The `LinearRegression()` function from scikit-learn creates a new Linear Regression model. The `fit` method is then used to train this model on `X_train` and `y_train`, which are our features and target variable, respectively. This step is crucial as it allows the model to learn the relationship between the features and the target, thus enabling it to make predictions.

```
In [70]: # Training the Linear Regression model code
lin_reg = LinearRegression()
lin_reg.fit(X_train, y_train)
```


Out [70]:

▼ LinearRegression

LinearRegression()

Cross-Validation of the Linear Regression Model

To ensure the robustness of our Linear Regression model, we employ cross-validation. This technique involves dividing the dataset into a specified number (`cv=5` in this case) of distinct subsets or 'folds'. The model is then trained and tested multiple times, each time using a different fold as the test set and the remaining as the training set. We use Mean Squared Error (MSE) as the scoring metric. This approach helps us understand the model's performance more reliably by averaging its effectiveness across different subsets of data.

```
In [71]: # Cross-validation code
cv_scores = cross_val_score(lin_reg, X, y, cv=5, scoring='neg_mean_squared_e
cv_mse = -cv_scores.mean()
print("Cross-Validation MSE:", cv_mse)
```

Cross-Validation MSE: 0.09807889456819911

Predicting and Evaluating the Linear Regression Model

After training the Linear Regression model, we use it to make predictions on our test set (`X_test`). This step is crucial for assessing how well our model generalizes to new, unseen data. We evaluate the model's performance by calculating the Mean Squared Error (MSE) and the R^2 score. MSE measures the average of the squares of the errors, which is the average squared difference between the estimated values and the actual value. The R^2 score provides a measure of how well the observed outcomes are replicated by the model, based on the proportion of total variation of outcomes explained by the model.

```
In [72]: # Predicting and evaluating code
lin_reg_predictions = lin_reg.predict(X_test)
mse = mean_squared_error(y_test, lin_reg_predictions)
r2 = r2_score(y_test, lin_reg_predictions)
print("Test MSE:", mse)
print("Test R2 Score:", r2)
```

Test MSE: 0.07384469727182866

Test R2 Score: 0.0

Analyzing Overfitting/Underfitting

We analyze our Linear Regression model for overfitting or underfitting by comparing training and test performance and examining the R^2 score, which indicates the proportion of variance in the dependent variable predictable from the independent variables.