```
from math import sqrt
def euclidean distance(row1, row2):
  distance = 0.0
  for i in range(len(row1)-1):
    distance += (row1[i] - row2[i])**2
  print(sqrt(distance))
  return sqrt(distance)
def get_neighbors(train, test_row, num_neighbors):
  distances = list()
  for train_row in train:
    dist = euclidean_distance(test_row, train_row)
    distances.append((train_row, dist))
  distances.sort(key=lambda tup: tup[1])
  neighbors = list()
  for i in range(num neighbors):
    neighbors.append(distances[i][0])
  print(neighbors)
  return neighbors
def predict classification(train, test row, num neighbors):
  neighbors = get neighbors(train, test row, num neighbors)
  output values = [row[-1] for row in neighbors]
  prediction = max(set(output values), key=output values.count)
  return prediction
dataset = [[1,2,3,2,1,3,0],
[2,1,3,3,1,2,0],
[1,1,2,3,2,2,0],
[2,2,3,3,2,1,0],
[6,5,7,5,6,7,1],
[5,6,6,6,5,7,1],
[5,6,7,5,7,6,1],
[7,6,7,6,5,6,1],
```

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