Please choose dataset you want to test (1 for small-test-dataset, 2 for large-test-dataset): 1

Please enter the feature(s) you want to test (separated by spaces): 3 5 7

Performing classification:

Classifying instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

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Comparing with instance 81

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Comparing with instance 91

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Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 1: 27 (Distance: 0.7747300410990724)

### Time taken: 1.85925 milliseconds

### Classifying instance 2

- Comparing with instance 1
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
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Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 2: 32 (Distance: 0.4115674877764758)

Time taken: 3.970916 milliseconds

### Classifying instance 3

- Comparing with instance 1
- Comparing with instance 2
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
- Comparing with instance 10
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Comparing with instance 94 Comparing with instance 95

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 3: 92 (Distance: 0.3137510268463517)

Time taken: 4.48525 milliseconds

# Classifying instance 4

- Comparing with instance 1
- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 4: 67 (Distance: 0.9528407536466521)

Time taken: 3.013459 milliseconds

Classifying instance 5

- Comparing with instance 1
- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 6
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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 5: 63 (Distance: 0.48626533470386313)

Time taken: 0.695875 milliseconds

Classifying instance 6

- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 7
- Comparing with instance 8
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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 6: 61 (Distance: 0.6878358420093267)

Time taken: 2.483167 milliseconds

Classifying instance 7

Comparing with instance 1

- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
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Comparing with instance 100

Nearest neighbor to instance 7: 97 (Distance: 1.0119095567318752)

Time taken: 5.904417 milliseconds

#### Classifying instance 8

Comparing with instance 1

Comparing with instance 2

- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 8: 48 (Distance: 0.7523247800683682)

Time taken: 1.974583 milliseconds

#### Classifying instance 9

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 100

Nearest neighbor to instance 9: 43 (Distance: 0.29883741490745425)

Time taken: 1.16325 milliseconds

#### Classifying instance 10

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 11

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 10: 95 (Distance: 0.41720686907610977)

Time taken: 0.23725 milliseconds

## Classifying instance 11

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 12

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 11: 50 (Distance: 0.571892910470317)

Time taken: 0.261625 milliseconds

# Classifying instance 12

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 12: 60 (Distance: 1.745502417933675)

Time taken: 0.287083 milliseconds

## Classifying instance 13

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 13: 82 (Distance: 0.32886313394544536)

Time taken: 0.233709 milliseconds

# Classifying instance 14

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

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Comparing with instance 100

Nearest neighbor to instance 14: 65 (Distance: 0.18271996024832626)

Time taken: 0.19825 milliseconds

#### Classifying instance 15

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 100

Nearest neighbor to instance 15: 34 (Distance: 0.8069656281722164)

Time taken: 0.202709 milliseconds

### Classifying instance 16

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

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Nearest neighbor to instance 16: 49 (Distance: 0.6337519104969543)

Time taken: 0.197292 milliseconds

### Classifying instance 17

Comparing with instance 1

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Comparing with instance 3

Comparing with instance 4

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Nearest neighbor to instance 17: 39 (Distance: 0.4831197972886848)

Time taken: 0.226458 milliseconds

### Classifying instance 18

Comparing with instance 1

Comparing with instance 2

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Nearest neighbor to instance 18: 74 (Distance: 0.9833582586411829)

Time taken: 0.211084 milliseconds

# Classifying instance 19

Comparing with instance 1

Comparing with instance 2

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Nearest neighbor to instance 19: 69 (Distance: 0.46523957086842904)

Time taken: 0.2025 milliseconds

# Classifying instance 20

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 100

Nearest neighbor to instance 20: 62 (Distance: 0.46026810564577497)

Time taken: 0.18875 milliseconds

# Classifying instance 21

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 100

Nearest neighbor to instance 21: 31 (Distance: 0.766573325563863)

Time taken: 0.192041 milliseconds

### Classifying instance 22

Comparing with instance 1

Comparing with instance 2

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Comparing with instance 100

Nearest neighbor to instance 22: 63 (Distance: 0.3881620977224464)

Time taken: 0.193292 milliseconds

### Classifying instance 23

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 73

Comparing with instance 74

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 23: 26 (Distance: 0.36011365761827174)

Time taken: 0.314292 milliseconds

### Classifying instance 24

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

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- Comparing with instance 68
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- Comparing with instance 71 Comparing with instance 72

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Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 24: 58 (Distance: 0.48528557492558927)

Time taken: 1.437292 milliseconds

#### Classifying instance 25

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 25: 53 (Distance: 0.43801127282075725)

Time taken: 0.197042 milliseconds

#### Classifying instance 26

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 26: 66 (Distance: 0.2814316581946496)

Time taken: 0.214375 milliseconds

## Classifying instance 27

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 100

Nearest neighbor to instance 27: 68 (Distance: 0.2138092174912247)

Time taken: 0.18925 milliseconds

## Classifying instance 28

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 28: 31 (Distance: 0.3687829080430111)

Time taken: 0.185333 milliseconds

### Classifying instance 29

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8 Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 29: 50 (Distance: 0.6082722966486144)

Time taken: 0.218291 milliseconds

### Classifying instance 30

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 100

Nearest neighbor to instance 30: 17 (Distance: 1.5281762543148254)

Time taken: 0.1815 milliseconds

## Classifying instance 31

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

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Comparing with instance 100

Nearest neighbor to instance 31: 28 (Distance: 0.3687829080430111)

Time taken: 0.176959 milliseconds

## Classifying instance 32

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 32: 2 (Distance: 0.4115674877764758)

Time taken: 0.182417 milliseconds

#### Classifying instance 33

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 100

Nearest neighbor to instance 33: 83 (Distance: 0.9320339389741179)

Time taken: 0.183833 milliseconds

## Classifying instance 34

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 100

Nearest neighbor to instance 34: 15 (Distance: 0.8069656281722164)

Time taken: 0.185 milliseconds

## Classifying instance 35

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 13

Comparing with instance 14

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Comparing with instance 85

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Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 35: 52 (Distance: 0.4334530241230414)

Time taken: 1.028958 milliseconds

# Classifying instance 36

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18 Comparing with instance 19

Comparing with instance 20

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Comparing with instance 86

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Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 36: 3 (Distance: 0.33768124925553705)

Time taken: 0.179916 milliseconds

#### Classifying instance 37

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9 Comparing with instance 10

Comparing with instance 11

Comparing with instance 12 Comparing with instance 13

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- Comparing with instance 85

Comparing with instance 87

Comparing with instance 88

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Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 37: 35 (Distance: 0.5200120116154816)

Time taken: 0.175 milliseconds

## Classifying instance 38

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13 Comparing with instance 14

Comparing with instance 15

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Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31 Comparing with instance 32

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- Comparing with instance 35
- Comparing with instance 36
- Comparing with instance 37
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Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 38: 73 (Distance: 0.65090204540138)

Time taken: 0.179167 milliseconds

## Classifying instance 39

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 14 Comparing with instance 15

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Comparing with instance 36

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Comparing with instance 41

Comparing with instance 42

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Comparing with instance 44

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Comparing with instance 47

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Comparing with instance 50

Comparing with instance 51

Comparing with instance 52

Comparing with instance 53

Comparing with instance 54

Comparing with instance 55

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Comparing with instance 84

Comparing with instance 85

Comparing with instance 86

Comparing with instance 89

Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 39: 90 (Distance: 0.3888203815585545)

Time taken: 0.176041 milliseconds

#### Classifying instance 40

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

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Comparing with instance 37

Comparing with instance 38

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Comparing with instance 41

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Comparing with instance 86

Comparing with instance 87

Comparing with instance 90

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 40: 42 (Distance: 0.4887607085994535)

Time taken: 0.173125 milliseconds

# Classifying instance 41

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 41: 87 (Distance: 0.5524854421970684)

Time taken: 0.197459 milliseconds

# Classifying instance 42

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 42: 40 (Distance: 0.4887607085994535)

Time taken: 0.176208 milliseconds

## Classifying instance 43

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

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Comparing with instance 50

Comparing with instance 51

Comparing with instance 52

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Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 43: 51 (Distance: 0.2706025224933979)

Time taken: 0.175792 milliseconds

# Classifying instance 44

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 94

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 44: 91 (Distance: 0.505080483365345)

Time taken: 0.176542 milliseconds

## Classifying instance 45

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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- Comparing with instance 92
- Comparing with instance 93

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 45: 94 (Distance: 1.0277702458805373)

Time taken: 0.209917 milliseconds

## Classifying instance 46

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

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- Comparing with instance 74 Comparing with instance 75
- Comparing with instance 76
- Companing with instance 70
- Comparing with instance 77
- Comparing with instance 78
- Comparing with instance 79
- Comparing with instance 80
- Comparing with instance 81
- Comparing with instance 82
- Comparing with instance 83
- Comparing with instance 84
- Comparing with instance 85
- Comparing with instance 86
- Comparing with instance 87
- Comparing with instance 88
- Comparing with instance 89
- Comparing with instance 90
- Comparing with instance 91
- Comparing with instance 92
- Comparing with instance 93
- Comparing with instance 94

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 46: 61 (Distance: 0.5720176680340389)

Time taken: 0.230375 milliseconds

## Classifying instance 47

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25 Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

Comparing with instance 33

Comparing with instance 34

Comparing with instance 35

Comparing with instance 36

Comparing with instance 37

Comparing with instance 38

Comparing with instance 39

Comparing with instance 40

Comparing with instance 41

- Comparing with instance 43
- Comparing with instance 44
- Comparing with instance 45
- Comparing with instance 46
- Comparing with instance 48
- Comparing with instance 49
- Comparing with instance 50
- Comparing with instance 51
- Comparing with instance 52
- Comparing with instance 53
- Comparing with instance 54
- Comparing with instance 55
- Comparing with instance 56
- Comparing with instance 57
- Comparing with instance 58
- Comparing with instance 59
- Comparing with instance 60
- Comparing with instance 61
- Comparing with instance 62
- Comparing with instance 63
- Comparing with instance 64
- Comparing with instance 65
- Comparing with instance 66
- Comparing with instance 67
- Comparing with instance 68
- Comparing with instance 69
- Comparing with instance 70
- Comparing with instance 71
- Comparing with instance 72
- Comparing with instance 73
- Comparing with instance 74
- Comparing with instance 75
- Comparing with instance 76
- Comparing with instance 77
- Comparing with instance 78
- Comparing with instance 79
- Comparing with instance 80
- Comparing with instance 81
- Comparing with instance 82
- Comparing with instance 83
- Comparing with instance 84
- Comparing with instance 85
- Comparing with instance 86
- Comparing with instance 87
- Comparing with instance 88
- Comparing with instance 89
- Comparing with instance 90
- Comparing with instance 91
- Comparing with instance 92
- Comparing with instance 93
- Comparing with instance 94
- Comparing with instance 95

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 47: 88 (Distance: 0.15894056207409737)

Time taken: 0.221375 milliseconds

## Classifying instance 48

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

Comparing with instance 33

Comparing with instance 34

Comparing with instance 35

Comparing with instance 36

Comparing with instance 37 Comparing with instance 38

Comparing with instance 39

Companing with instance of

Comparing with instance 40

Comparing with instance 41

Comparing with instance 42 Comparing with instance 43

- Comparing with instance 44
- Comparing with instance 45
- Comparing with instance 46
- Comparing with instance 47
- Comparing with instance 49
- Comparing with instance 50
- Comparing with instance 51
- Comparing with instance 52
- Comparing with instance 53
- Comparing with instance 54
- Comparing with instance 55
- Comparing with instance 56
- Comparing with instance 57
- Comparing with instance 58
- Comparing with instance 59
- Comparing with instance 60
- Comparing with instance 61 Comparing with instance 62
- Comparing with instance 63
- Comparing with instance 64 Comparing with instance 65
- Comparing with instance 66
- Comparing with instance 67 Comparing with instance 68
- Comparing with instance 69
- Comparing with instance 70
- Comparing with instance 71
- Comparing with instance 72
- Comparing with instance 73 Comparing with instance 74
- Comparing with instance 75
- Comparing with instance 76
- Comparing with instance 77
- Comparing with instance 78
- Comparing with instance 79
- Comparing with instance 80
- Comparing with instance 81
- Comparing with instance 82
- Comparing with instance 83
- Comparing with instance 84
- Comparing with instance 85
- Comparing with instance 86
- Comparing with instance 87
- Comparing with instance 88
- Comparing with instance 89
- Comparing with instance 90
- Comparing with instance 91
- Comparing with instance 92
- Comparing with instance 93
- Comparing with instance 94
- Comparing with instance 95
- Comparing with instance 96

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 48: 99 (Distance: 0.5045132613139717)

Time taken: 0.183833 milliseconds

# Classifying instance 49

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

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Comparing with instance 24

Comparing with instance 25

Comparing with instance 26 Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

Comparing with instance 33

Comparing with instance 34

Comparing with instance 35

Comparing with instance 36

Comparing with instance 37

Comparing with instance 38

Comparing with instance 39

Comparing with instance 40

Comparing with instance 41

Comparing with instance 42

Comparing with instance 43

Comparing with instance 46

Comparing with instance 47

Comparing with instance 48

Comparing with instance 50

Comparing with instance 51

Comparing with instance 52

Comparing with instance 53

Comparing with instance 54

Comparing with instance 55

Comparing with instance 56

Comparing with instance 57

Comparing with instance 58

Comparing with instance 59

Comparing with instance 60

Comparing with instance 61

Comparing with instance 62

Comparing with instance 63

Comparing with instance 64

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Comparing with instance 66

Comparing with instance 67

Comparing with instance 68

Comparing with instance 69

Comparing with instance 70

Comparing with instance 71

Comparing with instance 72

Comparing with instance 73

Comparing with instance 74

Comparing with instance 75

Comparing with instance 76

Comparing with instance 77

Comparing with instance 78

Comparing with instance 79

Comparing with instance 80

Comparing with instance 81

Comparing with instance 82

Comparing with instance 83

Comparing with instance 84

Comparing with instance 85

Comparing with instance 86

Comparing with instance 87

Comparing with instance 88

Comparing with instance 89

Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 49: 66 (Distance: 0.3173649427376313)

Time taken: 0.184917 milliseconds

# Classifying instance 50

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

Comparing with instance 33

Comparing with instance 34

Comparing with instance 35

Comparing with instance 36

Comparing with instance 37

Comparing with instance 38

Comparing with instance 39

Comparing with instance 40

Comparing with instance 41

Comparing with instance 42

Comparing with instance 43

Comparing with instance 44

Comparing with instance 47

Comparing with instance 48

Comparing with instance 49

Comparing with instance 51

Comparing with instance 52

Comparing with instance 53 Comparing with instance 54

Comparing with instance 55

Comparing with instance 56

Comparing with instance 57

Comparing with instance 58

Comparing with instance 59

Comparing with instance 60

Comparing with instance 61

Comparing with instance 62

Comparing with instance 63 Comparing with instance 64

Comparing with instance 65

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Comparing with instance 67

Comparing with instance 68

Comparing with instance 69

Comparing with instance 70

Comparing with instance 71

Comparing with instance 72

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Comparing with instance 75 Comparing with instance 76

Comparing with instance 77

Comparing with instance 78 Comparing with instance 79

Comparing with instance 80

Comparing with instance 81

Comparing with instance 82

Comparing with instance 83

Comparing with instance 84

Comparing with instance 85

Comparing with instance 86

Comparing with instance 87

Comparing with instance 88 Comparing with instance 89

Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93 Comparing with instance 94

Comparing with instance 95

Comparing with instance 96 Comparing with instance 97

Comparing with instance 100

Nearest neighbor to instance 50: 71 (Distance: 0.18495067185025324)

Time taken: 0.184458 milliseconds

# Classifying instance 51

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

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Comparing with instance 36

Comparing with instance 37 Comparing with instance 38

Comparing with instance 39 Comparing with instance 40

Comparing with instance 41

Comparing with instance 42

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Comparing with instance 44 Comparing with instance 45

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Comparing with instance 76

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Comparing with instance 86

Comparing with instance 87

Comparing with instance 88

Comparing with instance 89

Comparing with instance 90 Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98 Comparing with instance 99

Nearest neighbor to instance 51: 43 (Distance: 0.2706025224933979)

Time taken: 0.177083 milliseconds

# Classifying instance 52

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

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Comparing with instance 30

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Comparing with instance 37 Comparing with instance 38

Comparing with instance 39

Comparing with instance 40

Comparing with instance 41

Comparing with instance 42

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Comparing with instance 44

Comparing with instance 45

Comparing with instance 46

Comparing with instance 49

Comparing with instance 50

Comparing with instance 51

Comparing with instance 53

Comparing with instance 54

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Comparing with instance 56

Comparing with instance 57

Comparing with instance 58

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Comparing with instance 87

Comparing with instance 88

Comparing with instance 89

Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99 Comparing with instance 100

Nearest neighbor to instance 52: 70 (Distance: 0.167084581111005)

Time taken: 0.193417 milliseconds

## Classifying instance 53

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

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Comparing with instance 39 Comparing with instance 40

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Comparing with instance 46

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Comparing with instance 50

Comparing with instance 51

Comparing with instance 52

Comparing with instance 54

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Comparing with instance 57

Comparing with instance 58

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Comparing with instance 80

Comparing with instance 81

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Comparing with instance 85

Comparing with instance 86

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Comparing with instance 90

Comparing with instance 91 Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99 Comparing with instance 100

Nearest neighbor to instance 53: 47 (Distance: 0.2948535180179473)

Time taken: 0.236416 milliseconds

## Classifying instance 54

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14 Comparing with instance 15

Comparing with instance 16

Comparing with instance 17

Comparing with instance 18

Comparing with instance 19

Comparing with instance 20

Comparing with instance 21

Comparing with instance 22

Comparing with instance 23

Comparing with instance 24

Comparing with instance 25

Comparing with instance 26

Comparing with instance 27

Comparing with instance 28

Comparing with instance 29

Comparing with instance 30

Comparing with instance 31

Comparing with instance 32

Comparing with instance 33

Comparing with instance 34

Comparing with instance 35

Comparing with instance 36

Comparing with instance 37

Comparing with instance 38

Comparing with instance 39

Comparing with instance 40

Comparing with instance 41

Comparing with instance 42

Comparing with instance 43

Comparing with instance 44

Comparing with instance 45

Comparing with instance 46

Comparing with instance 47

Comparing with instance 48

Comparing with instance 51

Comparing with instance 52

Comparing with instance 53

Comparing with instance 55

Comparing with instance 56

Comparing with instance 57

Comparing with instance 58

Comparing with instance 59

Comparing with instance 60

Comparing with instance 61

Comparing with instance 62

Comparing with instance 63

Comparing with instance 64

Comparing with instance 65

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Comparing with instance 69

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Octobrating with instance 72

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Ouripaining with included 70

Comparing with instance 76 Comparing with instance 77

Comparing with instance 78

Companing with instance 76

Comparing with instance 79

Comparing with instance 80

Comparing with instance 81 Comparing with instance 82

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Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96 Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 54: 95 (Distance: 0.2801749259695091)

Time taken: 0.1875 milliseconds

## Classifying instance 55

- Comparing with instance 1
- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
- Comparing with instance 10
- Comparing with instance 11
- Comparing with instance 12
- Comparing with instance 13
- Comparing with instance 14
- Comparing with instance 15
- Comparing with instance 16
- Comparing with instance 17
- Comparing with instance 18
- Comparing with instance 19
- Comparing with instance 20
- Comparing with instance 21
- Comparing with instance 22
- Comparing with instance 23
- Comparing with instance 24
- Comparing with instance 25
- Comparing with instance 26
- Comparing with instance 27
- Comparing with instance 28
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- Comparing with instance 30
- Comparing with instance 31
- Comparing with instance 32
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- Comparing with instance 38
- Comparing with instance 39
- Comparing with instance 40
- Comparing with instance 41
- Comparing with instance 42
- Comparing with instance 43
- Comparing with instance 44
- Comparing with instance 45
- Comparing with instance 46
- Comparing with instance 47
- Comparing with instance 48
- Comparing with instance 49 Comparing with instance 50

Comparing with instance 52

Comparing with instance 53

Comparing with instance 54

Comparing with instance 56

Comparing with instance 57

Comparing with instance 58

Comparing with instance 59

Comparing with instance 60

Comparing with instance 61

Comparing with instance 62

Comparing with instance 63

Comparing with instance 64

Comparing with instance 65

Comparing with instance 66

Comparing with instance 67

Comparing with instance 68

Comparing with instance 69

Comparing with instance 70

Comparing with instance 71

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Comparing with instance 77

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Comparing with instance 79

Comparing with instance 80

Comparing with instance 81

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Comparing with instance 86

Comparing with instance 87

Comparing with instance 88

Comparing with instance 89

Comparing with instance 90

Comparing with instance 91

Comparing with instance 92

Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 55: 22 (Distance: 0.6222270407471939)

Time taken: 0.181375 milliseconds

Classifying instance 56

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

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Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 56: 98 (Distance: 0.48241721341555566)

Time taken: 0.188833 milliseconds

Classifying instance 57

- Comparing with instance 1
- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
- Comparing with instance 10
- Comparing with instance 11
- Comparing with instance 12
- Comparing with instance 13
- Comparing with instance 14
- Comparing with instance 15
- Comparing with instance 16
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- Comparing with instance 40 Comparing with instance 41
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- Comparing with instance 46
- Comparing with instance 47
- Comparing with instance 48
- Comparing with instance 49
- Comparing with instance 50
- Comparing with instance 51
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Comparing with instance 54

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Comparing with instance 60

Comparing with instance 61

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Comparing with instance 63

Comparing with instance 64

Comparing with instance 65

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Comparing with instance 68

Comparing with instance 69

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Comparing with instance 71

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Comparing with instance 91

Comparing with instance 92

Comparing with instance 93 Comparing with instance 94

Companing with instance 34

Comparing with instance 95 Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 57: 16 (Distance: 0.8078558968600467)

Time taken: 0.186333 milliseconds

Classifying instance 58

- Comparing with instance 2
- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
- Comparing with instance 10
- Comparing with instance 11
- Comparing with instance 12
- Comparing with instance 13
- Comparing with instance 14
- Comparing with instance 15
- Comparing with instance 16
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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 58: 24 (Distance: 0.48528557492558927)

Time taken: 0.192833 milliseconds

Classifying instance 59

Comparing with instance 1

- Comparing with instance 3
- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
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- Comparing with instance 10
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Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 59: 80 (Distance: 0.4713911724316549)

Time taken: 0.18975 milliseconds

#### Classifying instance 60

Comparing with instance 1

Comparing with instance 2

- Comparing with instance 4
- Comparing with instance 5
- Comparing with instance 6
- Comparing with instance 7
- Comparing with instance 8
- Comparing with instance 9
- Comparing with instance 10
- Comparing with instance 11
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Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 60: 55 (Distance: 1.3944226840992118)

Time taken: 0.210917 milliseconds

#### Classifying instance 61

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 61: 46 (Distance: 0.5720176680340389)

Time taken: 0.288916 milliseconds

#### Classifying instance 62

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 62: 100 (Distance: 0.10715637515323076)

Time taken: 0.238875 milliseconds

# Classifying instance 63

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 8

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Comparing with instance 11

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Comparing with instance 100

Nearest neighbor to instance 63: 22 (Distance: 0.3881620977224464)

Time taken: 1.737334 milliseconds

## Classifying instance 64

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 64: 92 (Distance: 0.28213713701063897)

Time taken: 0.712875 milliseconds

## Classifying instance 65

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

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Comparing with instance 100

Nearest neighbor to instance 65: 14 (Distance: 0.18271996024832626)

Time taken: 0.774667 milliseconds

#### Classifying instance 66

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 66: 26 (Distance: 0.2814316581946496)

Time taken: 0.242792 milliseconds

#### Classifying instance 67

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 100

Nearest neighbor to instance 67: 35 (Distance: 0.6233088614145157)

Time taken: 0.182541 milliseconds

### Classifying instance 68

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 100

Nearest neighbor to instance 68: 27 (Distance: 0.2138092174912247)

Time taken: 0.206375 milliseconds

### Classifying instance 69

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 69: 19 (Distance: 0.46523957086842904)

Time taken: 0.737541 milliseconds

#### Classifying instance 70

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 70: 52 (Distance: 0.167084581111005)

Time taken: 1.517625 milliseconds

## Classifying instance 71

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 71: 50 (Distance: 0.18495067185025324)

Time taken: 3.09375 milliseconds

## Classifying instance 72

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 100

Nearest neighbor to instance 72: 55 (Distance: 0.6308467199693305)

Time taken: 0.251 milliseconds

### Classifying instance 73

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 100

Nearest neighbor to instance 73: 88 (Distance: 0.5276671088462973)

Time taken: 0.2045 milliseconds

# Classifying instance 74

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 74: 100 (Distance: 0.6640028939576545)

Time taken: 0.189041 milliseconds

# Classifying instance 75

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 7

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Comparing with instance 9

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Comparing with instance 100

Nearest neighbor to instance 75: 9 (Distance: 0.6372190610445456)

Time taken: 0.1765 milliseconds

# Classifying instance 76

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 100

Nearest neighbor to instance 76: 34 (Distance: 0.8122111302951774)

Time taken: 2.535541 milliseconds

### Classifying instance 77

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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Comparing with instance 100

Nearest neighbor to instance 77: 58 (Distance: 0.5618948529802082)

Time taken: 0.310084 milliseconds

### Classifying instance 78

Comparing with instance 1

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Comparing with instance 3

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Comparing with instance 100

Nearest neighbor to instance 78: 13 (Distance: 0.6815509943808096)

Time taken: 0.228333 milliseconds

# Classifying instance 79

Comparing with instance 1

Comparing with instance 2

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Nearest neighbor to instance 79: 62 (Distance: 0.3854460247209978)

Time taken: 0.645666 milliseconds

# Classifying instance 80

Comparing with instance 1

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Comparing with instance 99 Comparing with instance 100

Nearest neighbor to instance 80: 59 (Distance: 0.4713911724316549)

Time taken: 0.385667 milliseconds

# Classifying instance 81

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

Comparing with instance 13

Comparing with instance 14

Comparing with instance 15

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- Comparing with instance 70 Comparing with instance 71
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- Comparing with instance 74 Comparing with instance 75
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Comparing with instance 78

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Comparing with instance 93

Comparing with instance 94

Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 81: 19 (Distance: 0.6397376044703408)

Time taken: 0.164625 milliseconds

# Classifying instance 82

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

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Comparing with instance 94

Comparing with instance 95

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 39

Comparing with instance 100

Nearest neighbor to instance 82: 13 (Distance: 0.32886313394544536)

Time taken: 0.194459 milliseconds

# Classifying instance 83

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 83: 22 (Distance: 0.9223640730168267)

Time taken: 0.196833 milliseconds

# Classifying instance 84

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 84: 42 (Distance: 1.2496521052300955)

Time taken: 0.18225 milliseconds

### Classifying instance 85

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

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Comparing with instance 100

Nearest neighbor to instance 85: 96 (Distance: 0.30954467185008994)

Time taken: 0.191125 milliseconds

# Classifying instance 86

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

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Comparing with instance 100

Nearest neighbor to instance 86: 47 (Distance: 0.5278941423428468)

Time taken: 0.168583 milliseconds

# Classifying instance 87

Comparing with instance 1

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 87: 41 (Distance: 0.5524854421970684)

Time taken: 0.160625 milliseconds

# Classifying instance 88

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

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Comparing with instance 100

Nearest neighbor to instance 88: 47 (Distance: 0.15894056207409737)

Time taken: 1.093416 milliseconds

### Classifying instance 89

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 89: 13 (Distance: 0.41446717173828185)

Time taken: 0.200416 milliseconds

# Classifying instance 90

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 100

Nearest neighbor to instance 90: 39 (Distance: 0.3888203815585545)

Time taken: 0.419375 milliseconds

### Classifying instance 91

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 91: 44 (Distance: 0.505080483365345)

Time taken: 0.442708 milliseconds

#### Classifying instance 92

Comparing with instance 1

Comparing with instance 2

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Comparing with instance 86

Comparing with instance 89

Comparing with instance 90

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 92: 64 (Distance: 0.28213713701063897)

Time taken: 1.282583 milliseconds

## Classifying instance 93

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

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Comparing with instance 16 Comparing with instance 17

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Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 93: 81 (Distance: 1.2074268515672462)

Time taken: 0.572042 milliseconds

## Classifying instance 94

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 12

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Comparing with instance 26

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 94: 3 (Distance: 0.36887794025663784)

Time taken: 0.190333 milliseconds

# Classifying instance 95

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

Comparing with instance 11

Comparing with instance 12

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Comparing with instance 86

Comparing with instance 87

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 95: 54 (Distance: 0.2801749259695091)

Time taken: 0.189125 milliseconds

## Classifying instance 96

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

Comparing with instance 6

Comparing with instance 7

Comparing with instance 8

Comparing with instance 9

Comparing with instance 10

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Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 96: 85 (Distance: 0.30954467185008994)

Time taken: 0.614333 milliseconds

#### Classifying instance 97

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 7

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Comparing with instance 95

Comparing with instance 96

Comparing with instance 98

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 97: 7 (Distance: 1.0119095567318752)

Time taken: 0.686916 milliseconds

## Classifying instance 98

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

Comparing with instance 5

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Comparing with instance 95

Comparing with instance 96

Comparing with instance 97

Comparing with instance 99

Comparing with instance 100

Nearest neighbor to instance 98: 56 (Distance: 0.48241721341555566)

Time taken: 0.704292 milliseconds

## Classifying instance 99

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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- Comparing with instance 93 Comparing with instance 94

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Comparing with instance 97

Comparing with instance 98

Comparing with instance 100

Nearest neighbor to instance 99: 48 (Distance: 0.5045132613139717)

Time taken: 1.333125 milliseconds

#### Classifying instance 100

Comparing with instance 1

Comparing with instance 2

Comparing with instance 3

Comparing with instance 4

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- Comparing with instance 92
- Comparing with instance 93 Comparing with instance 94
- Comparing with instance 95

Comparing with instance 96 Comparing with instance 97 Comparing with instance 98 Comparing with instance 99

Nearest neighbor to instance 100: 62 (Distance: 0.10715637515323076)

Time taken: 0.19375 milliseconds

Classification complete. There are 89 correct tests The accuracy is 89.0%

Process finished with exit code 0