Patrones con K-means de la base de datos

importar librerías para el desarrollo del entregable

```
In [30]:
          import pandas as pd
          import seaborn as sb
          import numpy as np; np.random.seed(0)
          import matplotlib.pyplot as plt
          import sklearn
          from sklearn.cluster import KMeans
          from mpl toolkits.mplot3d import Axes3D
          from sklearn.preprocessing import scale
          import sklearn.metrics as sm
          from sklearn import datasets
          from sklearn.metrics import confusion_matrix, classification_report
          health heart= pd.read csv('heart failure clinical records dataset new.csv')
In [85]:
          X=scale(health heart)
          lista = []
          for i in range(299):
               lista.append(i+1)
          Y=pd.DataFrame(lista)
          variable names=health heart.age
          X[0:11,]
Out[85]: array([[ 1.19294523e+00,
                                    1.65728387e-04, -1.53055953e+00,
                                    4.90056987e-01, -1.50403612e+00,
                   1.68164843e-02,
                  -1.62950241e+00],
                 [-4.91279276e-01, 7.51463953e+00, -7.07675018e-03,
                   7.53566018e-09, -2.84552352e-01, -1.41976151e-01,
                  -1.60369074e+00],
                 [ 3.50832977e-01, -4.49938761e-01, -1.53055953e+00,
                  -1.03807313e+00, -9.09000174e-02, -1.73104612e+00,
                  -1.59078490e+00],
                 [-9.12335403e-01, -4.86071002e-01, -1.53055953e+00,
                  -5.46474088e-01,
                                    4.90056987e-01, 8.50338444e-02,
                  -1.59078490e+00],
                 [ 3.50832977e-01, -4.35485864e-01, -1.53055953e+00,
                   6.51798584e-01, 1.26466633e+00, -4.68217606e+00,
                  -1.57787906e+00],
                 [ 2.45611361e+00, -5.52141386e-01, 1.62199114e-01,
                                    6.83709322e-01, -1.05001613e+00,
                  -6.07923969e-01,
                  -1.57787906e+00],
                 [ 1.19294523e+00, -3.46703786e-01, -1.95374919e+00,
                  -1.39653077e+00, -1.87726185e-01, 8.50338444e-02,
                  -1.55206738e+00],
                 [-7.02231493e-02, -2.75471654e-01, 1.85495776e+00,
                   1.95248772e+00, -2.84552352e-01, -1.27702613e+00,
                  -1.55206738e+00],
                 [ 3.50832977e-01, -4.38582914e-01, 2.27814742e+00,
                   7.53566018e-09,
                                    1.02752318e-01,
                                                     3.12043840e-01,
                  -1.55206738e+00],
                 [ 1.61400136e+00, -4.73682805e-01, -2.60990546e-01,
                   1.27653904e+00, 7.75201955e+00, -8.23006137e-01,
                  -1.55206738e+00],
                 [ 1.19294523e+00, -5.17041494e-01, -7.07675018e-03,
                   1.07170610e+00, 2.52340650e+00, -1.27702613e+00,
                  -1.55206738e+00]])
          clustering=KMeans(n clusters=7,random state=0)
```

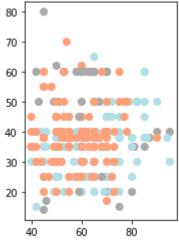
clustering.fit(X)

Out[62]: KMeans(n_clusters=7, random_state=0)

In [64]: heart_df=pd.DataFrame(health_heart)
 heart_df.columns=["age","creatinine_phosphokinase","ejection_fraction","platelets","ser
 Y.columns=["age","creatinine_phosphokinase","ejection_fraction","platelets","serum_crea

Out[66]: Text(0.5, 1.0, 'Clasificación K-means (edad vs fracción de eyección)')

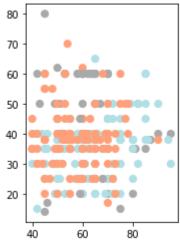
Clasificación K-means (edad vs fracción de eyección)



In [71]: relabel = np.choose (clustering.labels_,[2,0,1,1,1,1,1]).astype(np.int64)
 plt.subplot(1,2,2)
 plt.scatter(x=heart_df.age,y=heart_df.ejection_fraction,c=color_theme[clustering.labels
 plt.title("Clasificación K-means (edad vs fracción de eyección)")

Out[71]: Text(0.5, 1.0, 'Clasificación K-means (edad vs fracción de eyección)')

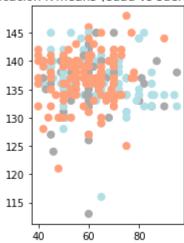
Clasificación K-means (edad vs fracción de eyección)



In [68]: plt.subplot(1,2,2)
 plt.scatter(x=heart_df.age,y=heart_df.serum_sodium,c=color_theme[clustering.labels_],s=
 plt.title("Clasificación K-means (edad vs suero de sodio)")

Out[68]: Text(0.5, 1.0, 'Clasificación K-means (edad vs suero de sodio)')

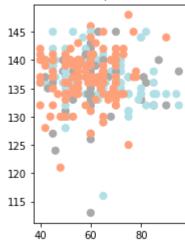
Clasificación K-means (edad vs suero de sodio)



In [83]: relabel2 = np.choose (clustering.labels_,[2,0,1,1,1,2,2]).astype(np.int64)
 plt.subplot(1,2,2)
 plt.scatter(x=heart_df.age,y=heart_df.serum_sodium,c=color_theme[clustering.labels_],s=
 plt.title("Clasificación K-means (edad vs suero de sodio)")

Out[83]: Text(0.5, 1.0, 'Clasificación K-means (edad vs suero de sodio)')

Clasificación K-means (edad vs suero de sodio)



Evaluación de los datos

In [81]: print (classification_report(lista, relabel))

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| | precision | recall | f1-score | support | |
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| 1 | 0.00 | 1.00 | 0.01 | 1 | |
| 2 | 0.00 | 0.00 | 0.00 | 1 | |
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| 85 | 0.00 | 0.00 | 0.00 | 1 |
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| 275 | 0.00 | 0.00 | 0.00 | 1 |
| 276 | 0.00 | 0.00 | 0.00 | 1 |
| 277 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 278 | 0.00 | 0.00 | 0.00 | 1 |
| 279 | 0.00 | 0.00 | 0.00 | 1 |
| 280 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 281 | 0.00 | 0.00 | 0.00 | 1 |
| 282 | 0.00 | 0.00 | 0.00 | 1 |
| | 0.00 | | 0.00 | 1 |
| 283 | | 0.00 | | |
| 284 | 0.00 | 0.00 | 0.00 | 1 |
| 285 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 286 | 0.00 | 0.00 | 0.00 | 1 |
| 287 | 0.00 | 0.00 | 0.00 | 1 |
| 288 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 289 | 0.00 | 0.00 | 0.00 | 1 |
| 290 | 0.00 | 0.00 | 0.00 | 1 |
| 291 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 292 | 0.00 | 0.00 | 0.00 | 1 |
| 293 | 0.00 | 0.00 | 0.00 | 1 |
| 294 | 0.00 | 0.00 | 0.00 | 1 |
| 295 | | | | 1 |
| | 0.00 | 0.00 | 0.00 | |
| 296 | 0.00 | 0.00 | 0.00 | 1 |
| 297 | 0.00 | 0.00 | 0.00 | 1 |
| | - | - | | - |

| 298 | 0.00 | 0.00 | 0.00 | 1 |
|--------------|------|------|------|-----|
| 299 | 0.00 | 0.00 | 0.00 | 1 |
| accuracy | | | 0.00 | 299 |
| macro avg | 0.00 | 0.00 | 0.00 | 299 |
| weighted avg | 0.00 | 0.00 | 0.00 | 299 |

In [84]: print (classification_report(lista, relabel2))

|]: | birtiic | (CIass | TITCACTON_Le | port(11st | a, relabela | 2)) |
|----|---------|----------|--------------|--------------|--------------|-----------------|
| | | | precision | recall | f1-score | support |
| | | 0 | 0.00 | 0.00 | 0.00 | 0 |
| | | 1 | 0.00 | 1.00 | 0.01 | 1 |
| | | 2 | 0.00 | 0.00 | 0.00 | 1 |
| | | 3 | 0.00 | 0.00 | 0.00 | 1 |
| | | 4 | 0.00 | 0.00 | 0.00 | 1 |
| | | 5 | 0.00 | 0.00 | 0.00 | 1 |
| | | 6 | 0.00 | 0.00 | 0.00 | 1 |
| | | 7 | 0.00 | 0.00 | 0.00 | 1 |
| | | 8 | 0.00 | 0.00 | 0.00 | 1 |
| | | 9 | 0.00 | 0.00 | 0.00 | 1 |
| | | 10 | 0.00 | 0.00 | 0.00 | 1 |
| | | 11 | 0.00 | 0.00 | 0.00 | 1 |
| | | 12 | 0.00 | 0.00 | 0.00 | 1 |
| | | 13 | 0.00 | 0.00 | 0.00 | 1 |
| | | 14 | 0.00 | 0.00 | 0.00 | 1 |
| | | 15 | 0.00 | 0.00 | 0.00 | 1 |
| | | 16 | 0.00 | 0.00 | 0.00 | 1 |
| | | 17 | 0.00 | 0.00 | 0.00 | 1 |
| | | 18 | 0.00 | 0.00 | 0.00 | 1 |
| | | 19 | 0.00 | 0.00 | 0.00 | 1 |
| | | 20 | 0.00 | 0.00 | 0.00 | 1 |
| | | 21 | 0.00 | 0.00 | 0.00 | 1 |
| | | 22 | 0.00 | 0.00 | 0.00 | 1 |
| | | 23 | 0.00 | 0.00 | 0.00 | 1 |
| | | 24 | 0.00 | 0.00 | 0.00 | 1 |
| | | 25 | 0.00 | 0.00 | 0.00 | 1 |
| | | 26 | 0.00 | 0.00 | 0.00 | 1 |
| | | 27 | 0.00 | 0.00 | 0.00 | 1 |
| | | 28 | 0.00 | 0.00 | 0.00 | 1 |
| | | 29 | 0.00 | 0.00 | 0.00 | 1 |
| | | 30 | 0.00 | 0.00 | 0.00 | 1 |
| | | 31 | 0.00 | 0.00 | 0.00 | 1 |
| | | 32 | 0.00 | 0.00 | 0.00 | 1 |
| | | 33 | 0.00 | 0.00 | 0.00 | 1 |
| | | 34 | 0.00 | 0.00 | 0.00 | 1 |
| | | 35 | 0.00 | 0.00 | 0.00 | 1 |
| | | 36 | 0.00 | 0.00 | 0.00 | 1 |
| | | 37 | 0.00 | 0.00 | 0.00 | 1 |
| | | 38 | 0.00 | 0.00 | 0.00 | 1 |
| | | 39 | 0.00 | 0.00 | 0.00 | 1 |
| | | 40 | 0.00 | 0.00 | 0.00 | 1 |
| | | 41 42 | 0.00 | 0.00 | 0.00 | 1 |
| | | | 0.00 | 0.00 | 0.00 | 1 |
| | | 43 44 | 0.00 | 0.00 | 0.00 | 1 1 |
| | | 44 45 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 1 |
| | | 46 | 0.00 | 0.00 | 0.00 | 1 |
| | | 47 | 0.00 | 0.00 | 0.00 | 1 |
| | | 48 | 0.00 | 0.00 | 0.00 | 1 |
| | | 49 | 0.00 | 0.00 | 0.00 | 1 |
| | | 50 | 0.00 | 0.00 | 0.00 | 1 |
| | | 51 | 0.00 | 0.00 | 0.00 | 1 |
| | | 52 | 0.00 | 0.00 | 0.00 | 1 |
| | | J- | 0.00 | 3.00 | 0.00 | - |

| | | | Entreya 4 | |
|-----|------|------|-----------|---|
| 53 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 54 | 0.00 | 0.00 | 0.00 | 1 |
| 55 | 0.00 | 0.00 | 0.00 | 1 |
| 56 | 0.00 | 0.00 | 0.00 | 1 |
| 57 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 58 | 0.00 | 0.00 | 0.00 | 1 |
| 59 | 0.00 | 0.00 | 0.00 | 1 |
| 60 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 61 | 0.00 | 0.00 | 0.00 | 1 |
| 62 | 0.00 | 0.00 | 0.00 | 1 |
| 63 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | 1 |
| 64 | 0.00 | 0.00 | 0.00 | |
| 65 | 0.00 | 0.00 | 0.00 | 1 |
| 66 | 0.00 | 0.00 | 0.00 | 1 |
| 67 | 0.00 | 0.00 | 0.00 | 1 |
| 68 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 69 | 0.00 | 0.00 | 0.00 | 1 |
| 70 | 0.00 | 0.00 | 0.00 | 1 |
| 71 | 0.00 | 0.00 | 0.00 | 1 |
| 72 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 73 | 0.00 | 0.00 | 0.00 | 1 |
| 74 | 0.00 | 0.00 | 0.00 | 1 |
| 75 | 0.00 | 0.00 | 0.00 | 1 |
| 76 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 77 | 0.00 | 0.00 | 0.00 | 1 |
| 78 | 0.00 | 0.00 | 0.00 | 1 |
| 79 | 0.00 | 0.00 | 0.00 | 1 |
| 80 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 81 | 0.00 | 0.00 | 0.00 | 1 |
| 82 | 0.00 | 0.00 | 0.00 | 1 |
| 83 | 0.00 | 0.00 | 0.00 | 1 |
| 84 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 85 | 0.00 | 0.00 | 0.00 | 1 |
| 86 | 0.00 | 0.00 | 0.00 | 1 |
| 87 | 0.00 | 0.00 | 0.00 | 1 |
| 88 | 0.00 | 0.00 | 0.00 | 1 |
| 89 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 90 | 0.00 | 0.00 | 0.00 | 1 |
| 91 | 0.00 | 0.00 | 0.00 | 1 |
| 92 | 0.00 | 0.00 | 0.00 | 1 |
| 93 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 94 | 0.00 | 0.00 | 0.00 | 1 |
| 95 | 0.00 | 0.00 | 0.00 | 1 |
| 96 | 0.00 | 0.00 | 0.00 | 1 |
| 97 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | 1 |
| 98 | 0.00 | 0.00 | 0.00 | |
| 99 | 0.00 | 0.00 | 0.00 | 1 |
| 100 | 0.00 | 0.00 | 0.00 | 1 |
| 101 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | 1 |
| 102 | 0.00 | 0.00 | 0.00 | |
| 103 | 0.00 | 0.00 | 0.00 | 1 |
| 104 | 0.00 | 0.00 | 0.00 | 1 |
| 105 | 0.00 | 0.00 | 0.00 | 1 |
| 106 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 107 | 0.00 | 0.00 | 0.00 | 1 |
| 108 | 0.00 | 0.00 | 0.00 | 1 |
| 109 | 0.00 | 0.00 | 0.00 | 1 |
| 110 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 111 | 0.00 | 0.00 | 0.00 | 1 |
| 112 | 0.00 | 0.00 | 0.00 | 1 |
| 113 | 0.00 | 0.00 | 0.00 | 1 |
| 114 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 1 |
| 116 | 0.00 | 0.00 | 0.00 | 1 |
| 117 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |

| | | | 3 | |
|------------|------|------|------|---|
| 118 | 0.00 | 0.00 | 0.00 | 1 |
| 119 | 0.00 | 0.00 | 0.00 | 1 |
| 120 | 0.00 | 0.00 | 0.00 | 1 |
| 121 | 0.00 | 0.00 | 0.00 | 1 |
| 122 | 0.00 | 0.00 | 0.00 | 1 |
| 123 | 0.00 | 0.00 | 0.00 | 1 |
| 124 | 0.00 | 0.00 | 0.00 | 1 |
| 125 | 0.00 | 0.00 | 0.00 | 1 |
| 126 | 0.00 | 0.00 | 0.00 | 1 |
| 127 | 0.00 | 0.00 | 0.00 | 1 |
| 128 | 0.00 | 0.00 | 0.00 | 1 |
| | | 0.00 | 0.00 | |
| 129 | 0.00 | | | 1 |
| 130 | 0.00 | 0.00 | 0.00 | 1 |
| 131 | 0.00 | 0.00 | 0.00 | 1 |
| 132 | 0.00 | 0.00 | 0.00 | 1 |
| 133 | 0.00 | 0.00 | 0.00 | 1 |
| 134 | 0.00 | 0.00 | 0.00 | 1 |
| 135 | 0.00 | 0.00 | 0.00 | 1 |
| 136 | 0.00 | 0.00 | 0.00 | 1 |
| 137 | 0.00 | 0.00 | 0.00 | 1 |
| 138 | 0.00 | 0.00 | 0.00 | 1 |
| 139 | 0.00 | 0.00 | 0.00 | 1 |
| 140 | 0.00 | 0.00 | 0.00 | 1 |
| 141 | 0.00 | 0.00 | 0.00 | 1 |
| 142 | 0.00 | 0.00 | 0.00 | 1 |
| 143 | 0.00 | 0.00 | 0.00 | 1 |
| 144 | 0.00 | 0.00 | 0.00 | 1 |
| 145 | 0.00 | 0.00 | 0.00 | 1 |
| 146 | 0.00 | 0.00 | 0.00 | 1 |
| 147 | 0.00 | 0.00 | 0.00 | 1 |
| 148 | 0.00 | 0.00 | 0.00 | 1 |
| 149 | 0.00 | 0.00 | 0.00 | 1 |
| 150 | 0.00 | 0.00 | 0.00 | 1 |
| 151 | 0.00 | 0.00 | 0.00 | 1 |
| 152 | 0.00 | 0.00 | 0.00 | 1 |
| 153 | 0.00 | 0.00 | 0.00 | 1 |
| 154 | 0.00 | 0.00 | 0.00 | 1 |
| 155 | 0.00 | 0.00 | 0.00 | 1 |
| 156 | 0.00 | 0.00 | 0.00 | 1 |
| 157 | 0.00 | 0.00 | 0.00 | 1 |
| 158 | 0.00 | 0.00 | 0.00 | 1 |
| 159 | 0.00 | 0.00 | 0.00 | 1 |
| 160 | 0.00 | 0.00 | 0.00 | 1 |
| 161 | 0.00 | 0.00 | 0.00 | 1 |
| 162 | 0.00 | 0.00 | 0.00 | 1 |
| 163 | 0.00 | 0.00 | 0.00 | 1 |
| 164 | 0.00 | 0.00 | 0.00 | 1 |
| 165 | 0.00 | 0.00 | 0.00 | 1 |
| 166 | 0.00 | 0.00 | 0.00 | 1 |
| 167 | 0.00 | 0.00 | 0.00 | 1 |
| 168 | 0.00 | 0.00 | 0.00 | 1 |
| 169 | 0.00 | 0.00 | 0.00 | 1 |
| 170 | 0.00 | 0.00 | 0.00 | 1 |
| 171 | 0.00 | 0.00 | 0.00 | 1 |
| 172 | 0.00 | 0.00 | 0.00 | 1 |
| 172 173 | 0.00 | 0.00 | 0.00 | 1 |
| 174 | 0.00 | 0.00 | 0.00 | 1 |
| 175 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | 1 |
| 176 177 | 0.00 | 0.00 | 0.00 | |
| 177 170 | 0.00 | 0.00 | 0.00 | 1 |
| 178 170 | 0.00 | 0.00 | 0.00 | 1 |
| 179 | 0.00 | 0.00 | 0.00 | 1 |
| 180 | 0.00 | 0.00 | 0.00 | 1 |
| 181 | 0.00 | 0.00 | 0.00 | 1 |
| 182 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |

| | | | Littioga 4 | |
|-----|------|------|------------|---|
| 100 | 0 00 | 0 00 | 0.00 | 1 |
| 183 | 0.00 | 0.00 | 0.00 | 1 |
| 184 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 185 | 0.00 | 0.00 | 0.00 | 1 |
| 186 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 187 | 0.00 | 0.00 | 0.00 | 1 |
| 188 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 189 | 0.00 | 0.00 | 0.00 | 1 |
| 190 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 191 | 0.00 | 0.00 | 0.00 | 1 |
| 192 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 193 | 0.00 | 0.00 | 0.00 | 1 |
| 194 | 0.00 | 0.00 | 0.00 | 1 |
| 195 | | 0.00 | | 1 |
| | 0.00 | | 0.00 | |
| 196 | 0.00 | 0.00 | 0.00 | 1 |
| 197 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 198 | 0.00 | 0.00 | 0.00 | 1 |
| 199 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 200 | 0.00 | 0.00 | 0.00 | 1 |
| 201 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 202 | 0.00 | 0.00 | 0.00 | 1 |
| 203 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 204 | 0.00 | 0.00 | 0.00 | 1 |
| 205 | 0.00 | 0.00 | 0.00 | 1 |
| 206 | 0.00 | | | 1 |
| | | 0.00 | 0.00 | |
| 207 | 0.00 | 0.00 | 0.00 | 1 |
| 208 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 209 | 0.00 | 0.00 | 0.00 | 1 |
| 210 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 211 | 0.00 | 0.00 | 0.00 | 1 |
| 212 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 213 | 0.00 | 0.00 | 0.00 | 1 |
| 214 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 215 | 0.00 | 0.00 | 0.00 | 1 |
| 216 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | 1 |
| 217 | 0.00 | 0.00 | 0.00 | |
| 218 | 0.00 | 0.00 | 0.00 | 1 |
| 219 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 220 | 0.00 | 0.00 | 0.00 | 1 |
| 221 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 222 | 0.00 | 0.00 | 0.00 | 1 |
| 223 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 224 | 0.00 | 0.00 | 0.00 | 1 |
| 225 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 226 | 0.00 | 0.00 | 0.00 | 1 |
| 227 | 0.00 | 0.00 | 0.00 | 1 |
| 228 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 229 | 0.00 | 0.00 | 0.00 | 1 |
| 230 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 231 | 0.00 | 0.00 | 0.00 | 1 |
| 232 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 233 | 0.00 | 0.00 | 0.00 | 1 |
| 234 | 0.00 | 0.00 | 0.00 | 1 |
| 235 | | | | 1 |
| | 0.00 | 0.00 | 0.00 | |
| 236 | 0.00 | 0.00 | 0.00 | 1 |
| 237 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 238 | 0.00 | 0.00 | 0.00 | 1 |
| 239 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 240 | 0.00 | 0.00 | 0.00 | 1 |
| 241 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 242 | 0.00 | 0.00 | 0.00 | 1 |
| 243 | 0.00 | 0.00 | 0.00 | 1 |
| 244 | | | | 1 |
| | 0.00 | 0.00 | 0.00 | |
| 245 | 0.00 | 0.00 | 0.00 | 1 |
| 246 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |
| 247 | 0.00 | 0.00 | 0.00 | 1 |
| | | | | |

| 248 | 0.00 | 0.00 | 0.00 | 1 |
|-----------------------|--------------|--------------|--------------|--------|
| 249 | 0.00 | 0.00 | 0.00 | 1 |
| 250 | 0.00 | 0.00 | 0.00 | 1 |
| 251 | 0.00 | 0.00 | 0.00 | 1 |
| 252 | 0.00 | 0.00 | 0.00 | 1 |
| 253 | 0.00 | 0.00 | 0.00 | 1 |
| 254 | 0.00 | 0.00 | 0.00 | 1 |
| 255 | 0.00 | 0.00 | 0.00 | 1 |
| 256 | 0.00 | 0.00 | 0.00 | 1 |
| 257 | 0.00 | 0.00 | 0.00 | 1 |
| 258 | 0.00 | 0.00 | 0.00 | 1 |
| 259 | 0.00 | 0.00 | 0.00 | 1 |
| 260 | 0.00 | 0.00 | 0.00 | 1 |
| 261 | 0.00 | 0.00 | 0.00 | 1 |
| 262 | 0.00 | 0.00 | 0.00 | 1 |
| 263 | 0.00 | 0.00 | 0.00 | 1 |
| 264 | 0.00 | 0.00 | 0.00 | 1 |
| 265 | 0.00 | 0.00 | 0.00 | 1 |
| 266 | 0.00 | 0.00 | 0.00 | 1 |
| 267 | 0.00 | 0.00 | 0.00 | 1 |
| 268 | 0.00 | 0.00 | 0.00 | 1 |
| 269 | 0.00 | 0.00 | 0.00 | 1 |
| 270 | 0.00 | 0.00 | 0.00 | 1 |
| 271 | 0.00 | 0.00 | 0.00 | 1 |
| 272 | 0.00 | 0.00 | 0.00 | 1 |
| 273 | 0.00 | 0.00 | 0.00 | 1 |
| 274 | 0.00 | 0.00 | 0.00 | 1 |
| 275 | 0.00 | 0.00 | 0.00 | 1 |
| 276 | 0.00 | 0.00 | 0.00 | 1 |
| 277 | 0.00 | 0.00 | 0.00 | 1 |
| 278 | 0.00 | 0.00 | 0.00 | 1 |
| 279 | 0.00 | 0.00 | 0.00 | 1 |
| 280 | 0.00 | 0.00 | 0.00 | 1 |
| 281 | 0.00 | 0.00 | 0.00 | 1 |
| 282 | 0.00 | 0.00 | 0.00 | 1 |
| 283 | 0.00 | 0.00 | 0.00 | 1 |
| 284 | 0.00 | 0.00 | 0.00 | 1 |
| 285 | 0.00 | 0.00 | 0.00 | 1 |
| 286 | 0.00 | 0.00 | 0.00 | 1 |
| 287 | 0.00 | 0.00 | 0.00 | 1 |
| 288 | 0.00 | 0.00 | 0.00 | 1 |
| 289 | 0.00 | 0.00 | 0.00 | 1 |
| 290 | 0.00 | 0.00 | 0.00 | 1 |
| 291 | 0.00 | 0.00 | 0.00 | 1 |
| 292 | 0.00 | 0.00 | 0.00 | 1 |
| 293 | 0.00 | 0.00 | 0.00 | 1 |
| 294 | 0.00 | 0.00 | 0.00 | 1 |
| 295 | 0.00 | 0.00 | 0.00 | 1 |
| 296 297 | 0.00 | 0.00 | 0.00 | 1 1 |
| 297 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 1 |
| 298 | | | | |
| 299 | 0.00 | 0.00 | 0.00 | 1 |
| accunacy | | | 0.00 | 299 |
| accuracy macro avg | 0.00 | 0.00 | 0.00 | 299 |
| weighted avg | 0.00 | 0.00 | 0.00 | 299 |
| weighted avg | 0.00 | 0.00 | 0.00 | 233 |
| | | | | |