

```
NB_CLASSES = 5
NB_TESTS = 8
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○-----○
| Main |
○-----○

```

```

*
realClasses[] = { 5, 2, 5, 3, 1, 3, 2, 4 }
estimatedClasses[] = { 5, 5, 1, 2, 1, 3, 2, 4 }

```

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○-----○ ↓ realClasses[],estimatedClasses[]
| createConfusionMatrix |
○-----○ ↓ matrix[][]

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○-----○ ↓ realClasses[],estimatedClasses[], matrix[][]
| displayResultsByClass |
○-----○

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○-----○ ↓ realClasses[],estimatedClasses[], matrix[][]
| displayAccuracy |
○-----○

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○-----○ ↓ matrix[][]
| displayConfusionMatrix |
○-----○

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○-----○ ↓ realClasses[],estimatedClasses[], matrix[][]
| displayResultsByClass |
○-----○

```

```

*
output "Classes      |      Bien classes      |      total      | Pourcentage"

i = 0
do while (i < NB_CLASSES)
  sum = 0
  j = 0
  do while (j < NB_CLASSES)
    sum += matrix[i][j]
    j++
  i++
  output i + 1 + " " + matrix[i][i] + " " + sum + " " + matrix[i][i] /
                                     sum) * 100

```

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○────────────────○ ↓ realClasses[],estimatedClasses[], matrix[][]
| displayAccuracy |
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```

```

*
sumWP = 0
sumRP = 0
i = 0
do while (i < NB_CLASSES)
  j = 0
  do while (j < NB_CLASSES)
    if (i == j AND matrix[i][j] ≥ 1)
      sumWP += matrix[i][j]
    sumRP += matrix[i][j]
    j++
  i++

output "L'accuracy est de " + (sumWP / sumRP) * 100 + " %";

```

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○────────────────○ ↓ matrix[][]
| displayConfusionMatrix |
○────────────────○

```

```

*
i = 0
do while (i < NB_CLASSES)
  output i + 1
  i++

output "-----"

i = 0
do while (i < NB_CLASSES)
  output i + 1 " | "
  j = 0
  do while (j < NB_CLASSES)
    output matrix[i][j]
    j++
  i++

```

```

○-----○ ↓ realClasses[],estimatedClasses[]
| createConfusionMatrix |
○-----○ ↓ matrix[][]

```

```

*
iTest = 0
do while (iTest < NB_TESTS)
  ○-----○ ↓ estimatedClasses, iTest
  | indexSearch |
  ○-----○ ↓ i
  ○-----○ ↓ realClasses, iTest
  | indexSearch |
  ○-----○ ↓ j

  if(i ≤ NB_CLASSES)
    matrix[i - 1][j - 1]++

iTest++

```

```

○-----○ ↓ tabSearch, iTest
| indexSearch |
○-----○ ↓ i

```

```

*
i = 1
do while (i ≤ NB_CLASSES AND i ≠ tabSearch[iTest])
  i++

```