Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 6 examples. R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples. R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 19 examples. R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created with: 5 examples. R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 7 examples. R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples. R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is ['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples. R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples.

Reglas Virginica: 9

R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples. R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples. R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples. R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 5 examples. R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 10 examples. R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples. R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] then Virginica created with: 3 examples.

('Ejemplo', 'Ejemplo fuzzy', 'N° Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')
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P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 2--

Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples.
R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN',
'Z'] then Versicolor created with: 19 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created
with: 5 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 7 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 9

```
R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples.
R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples.
R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples.
R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 10 examples.
R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples.
R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples.
R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP']
```

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'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
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P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 3--

Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples.
R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN',
'Z'] then Versicolor created with: 18 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
\mbox{'SP', 'MP', 'HP']} and X3 is ['MN', 'SN', 'SP'] then Versicolor created
with: 5 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 7 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 9

```
R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples.
R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 17 examples.
R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 16 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica
```

```
created with: 5 examples.

R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 11 examples.

R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples.

R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples.

R16: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] then Virginica created with: 3 examples.

R17: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples.
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P. Acierto: 100.0%
```

--Algoritmo Amplify Iteracion 4--

P. No Clasificados: 0.0%

Reglas Setosa: 1

P. Fallo: 0.0%

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 15 examples.
R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN',
'Z'] then Versicolor created with: 20 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created
with: 6 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 6 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 9

```
R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples.
R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 17 examples.
R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 16 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica
created with: 5 examples.
R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 10 examples.
R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP',
'HP'] then Virginica created with: 3 examples.
R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP',
'MP', 'HP'] then Virginica created with: 2 examples.
```

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P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Amplify Iteracion 5--

Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 6 examples.

R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples.

R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 18 examples.

R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 5 examples.

R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 7 examples.
```

R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples.

R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is ['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.

R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples.

Reglas Virginica: 9

R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples. R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples. R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples. R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 5 examples. R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 10 examples. R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples. R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] then Virginica created with: 3 examples.

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')

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P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Amplify Iteracion 6--

Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 19 examples.
```

```
R2: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R3: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 15 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
\mbox{'SP'},\mbox{'MP'},\mbox{'HP'}] and X3 is [\mbox{'MN'},\mbox{'SN'},\mbox{'SP'}] then Versicolor created
with: 5 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 7 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
\mbox{'SP', 'MP', 'HP']} and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 1 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 8

```
R9: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 18 examples.
R10: if X3 is ['MN', 'HP'] then Virginica created with: 10 examples.
R11: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN',
\mbox{'SP', 'MP', 'HP']} and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica
created with: 5 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 10 examples.
R13: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R14: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP',
'HP'] then Virginica created with: 3 examples.
R15: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R16: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP',
'MP', 'HP'] then Virginica created with: 2 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')

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P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Amplify Iteracion 7--

Reglas Versicolor: 8

R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 6 examples. R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples. R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 19 examples. R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created with: 5 examples. R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 6 examples. R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples. R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is ['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples. R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples.

Reglas Virginica: 9

R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples. R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples. R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples. R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 5 examples. R13: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 10 examples. R14: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 10 examples. R15: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] then Virginica created with: 3 examples.

('Ejemplo', 'Ejemplo fuzzy', 'N° Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')

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P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 8--

Reglas Setosa: 1

R0: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 6 examples. R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples. R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 19 examples. R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created with: 5 examples. R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 7 examples. R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples. R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is ['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples. R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then

Reglas Virginica: 9

Versicolor created with: 1 examples.

R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples. R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples. R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples. R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 5 examples. R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 10 examples. R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples. R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples. R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP',

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P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 9--

Reglas Setosa: 1

RO: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples.
R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN',
'Z'] then Versicolor created with: 19 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created
with: 5 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 7 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 9

```
R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples.
R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 17 examples.
R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP', 'HP'] then Virginica created with: 16 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN', 'SP', 'MP', 'HP'] then Virginica created with: 5 examples.
R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
```

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'HP'] then Virginica created with: 11 examples.

R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples.

R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica created with: 4 examples.

R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then Virginica created with: 1 examples.

R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] then Virginica created with: 3 examples.
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P. Acierto: 100.0%
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--Algoritmo Amplify Iteracion 10--

P. No Clasificados: 0.0%

Reglas Setosa: 1

P. Fallo: 0.0%

R0: if X3 is ['HN', 'MN'] then Setosa created with: 11 examples.

Reglas Versicolor: 8

```
R1: if X1 is ['Z', 'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP']
then Versicolor created with: 6 examples.
R2: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'SN',
'Z', 'SP', 'MP', 'HP'] and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and
X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 16 examples.
R3: if X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN',
'Z'] then Versicolor created with: 19 examples.
R4: if X0 is ['MN', 'SN', 'Z', 'SP', 'MP', 'HP'] and X1 is ['MN', 'Z',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SN', 'SP'] then Versicolor created
with: 5 examples.
R5: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z',
'SP'] then Versicolor created with: 7 examples.
R6: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
R7: if X0 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X1 is ['HN', 'Z',
\mbox{'SP', 'MP', 'HP']} and X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'MP'] and X3 is
['MN', 'SN', 'Z', 'MP'] then Versicolor created with: 2 examples.
R8: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP'] then
Versicolor created with: 1 examples.
```

Reglas Virginica: 9

R9: if X3 is ['MN', 'HP'] then Virginica created with: 12 examples.

```
R10: if X2 is ['HN', 'MN', 'SN', 'Z', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 17 examples.
R11: if X1 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 16 examples.
R12: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X1 is ['HN', 'MN',
'SP', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP', 'HP'] then Virginica
created with: 5 examples.
R13: if X0 is ['HN', 'MN', 'SN', 'SP', 'MP', 'HP'] and X3 is ['MN', 'MP',
'HP'] then Virginica created with: 10 examples.
R14: if X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R15: if X2 is ['HN', 'MN', 'SN', 'MP', 'HP'] and X3 is ['MN', 'SP', 'MP',
'HP'] then Virginica created with: 4 examples.
R16: if X0 is ['Z'] and X1 is ['SN'] and X2 is ['SP'] and X3 is ['SP']
then Virginica created with: 1 examples.
R17: if X2 is ['HN', 'MN', 'MP', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP',
'MP', 'HP'] then Virginica created with: 3 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado') ([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R3', 1, 'Versicolor', 'Versicolor', 'Acierto') ([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R3', 1, 'Versicolor', 'Versicolor', 'Acierto') ([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R3', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R3', 1, 'Versicolor', 'Versicolor', 'Acierto') ([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 1, 'Versicolor', 'Versicolor', 'Acierto') ([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R3', 1, 'Versicolor', 'Versicolor', 'Acierto') ([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',

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P. No Clasificados: 0.0%
P. Fallo: 0.0%
--- Informe de resultados del algoritmo --- Amplify
Numero total de ejemplos: 150
Numero de clases: 3
Numero de variables: 4
Porcentaje de ejemplos usados para entrenamiento: 0.8%
Porcentaje de ejemplos usados para test: 0.2%
Numero total de ejemplos entrenamiento: 120
Numero total de ejemplos test: 30
Numero total de ejecuciones: 10
Tiempo de ejecucion del algoritmo: 0.3s
----Resumen pruebas algoritmo----
Castro, Castro-schez, zurita
Media de P. Acierto: 100.0%
Media de P. No Clasificados: 0.0%
```

Prueba	Setosa	Versicolor	Virginica	Total	Acierto	NC	Fallo
1	1	8	9	18	100.0%	0.0%	0.0%

Media de P. No Clasificados: 0.0%

2	1	8	9	18	100.0%	0.0%	0.0%
		0		10	100.00	0.00	0.00
3	1	8	9	18	100.0%	0.0%	0.0%
4	1	8	9	18	100.0%	0.0%	0.0%
5	1	8	9	18	100.0%	0.0%	0.0%
6	1	8	8	17	100.0%	0.0%	0.0%
7	1	8	9	18	100.0%	0.0%	0.0%
8	1	8	9	18	100.0%	0.0%	0.0%
9	1	8	9	18	100.0%	0.0%	0.0%
10	1	8	9	18	100.0%	0.0%	0.0%

Reglas Setosa: 1

RO: if X2 is HN then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

```
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'N° Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')

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P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Elsevier Iteracion 2--

Reglas Setosa: 1

RO: if X2 is HN then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

```
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
```

```
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'Prediccion', 'Resultado')
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P. Fallo: 0.0%
--Algoritmo Elsevier Iteracion 3--
Reglas Setosa: 1
RO: if X2 is HN then Setosa created with: 11 examples.
Reglas Versicolor: 3
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
Reglas Virginica: 3
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
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([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Elsevier Iteracion 4--

Reglas Setosa: 1

 ${\tt R0:}$ if ${\tt X2:}$ is ${\tt HN:}$ then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 9 examples.
R2: if X2 is SN then Versicolor created with: 5 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

```
R4: if X2 is MP then Virginica created with: 11 examples. R5: if X0 is HP then Virginica created with: 5 examples. R6: if X0 is SN and X1 is MN and X2 is SP then Virginica created with: 1 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado') ([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor', 'Versicolor', 'Acierto') ([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor', 'Versicolor', 'Acierto') ([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor', 'Versicolor', 'Acierto') ([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor','Versicolor', 'Acierto') ([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor', 'Versicolor', 'Acierto') ([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor', 'Versicolor', 'Acierto') ([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor', 'Versicolor', 'Acierto')

```
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 93.3%
P. No Clasificados: 3.3%
P. Fallo: 3.3%
--Algoritmo Elsevier Iteracion 5--
Reglas Setosa: 1
R0: if X2 is HN then Setosa created with: 11 examples.
Reglas Versicolor: 3
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
Reglas Virginica: 3
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo',
'Prediccion', 'Resultado')
([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
```

([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa',

```
'Setosa', 'Acierto')
([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor',
'Versicolor', 'Acierto')
([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor',
'Versicolor', 'Acierto')
([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
```

```
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
--Algoritmo Elsevier Iteracion 6--
```

Reglas Setosa: 1

R0: if X2 is HN then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

```
R4: if X2 is MP then Virginica created with: 10 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado')

```
([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'RO', 1, 'Setosa',
'Setosa', 'Acierto')
([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor',
'Versicolor', 'Acierto')
([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor',
'Versicolor', 'Acierto')
([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
```

```
'Versicolor', 'Acierto')
([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Elsevier Iteracion 7--

Reglas Setosa: 1

 ${\tt R0:}$ if ${\tt X2}$ is ${\tt HN}$ then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

R4: if X2 is MP then Virginica created with: 11 examples.

```
('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo',
'Prediccion', 'Resultado')
([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor',
'Versicolor', 'Acierto')
([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor',
'Versicolor', 'Acierto')
([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
```

```
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
--Algoritmo Elsevier Iteracion 8--
Reglas Setosa: 1
RO: if X2 is HN then Setosa created with: 11 examples.
Reglas Versicolor: 3
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
Reglas Virginica: 3
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo',
'Prediccion', 'Resultado')
([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'RO', 1, 'Setosa',
```

```
'Setosa', 'Acierto')
([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor',
'Versicolor', 'Acierto')
([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor',
'Versicolor', 'Acierto')
([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
```

--Algoritmo Elsevier Iteracion 9--

Reglas Setosa: 1

R0: if X2 is HN then Setosa created with: 11 examples.

Reglas Versicolor: 3

```
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
```

Reglas Virginica: 3

```
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
```

('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo', 'Prediccion', 'Resultado') ([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa', 'Setosa', 'Acierto') ([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa', 'Setosa', 'Acierto') ([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor', 'Versicolor', 'Acierto') ([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor', 'Versicolor', 'Acierto') ([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor', 'Versicolor', 'Acierto') ([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor', 'Versicolor', 'Acierto') ([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor', 'Versicolor', 'Acierto') ([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor', 'Versicolor', 'Acierto') ([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor', 'Versicolor', 'Acierto')

([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',

```
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
P. Acierto: 100.0%
P. No Clasificados: 0.0%
P. Fallo: 0.0%
--Algoritmo Elsevier Iteracion 10--
Reglas Setosa: 1
R0: if X2 is HN then Setosa created with: 11 examples.
Reglas Versicolor: 3
R1: if X2 is Z then Versicolor created with: 10 examples.
R2: if X2 is SN then Versicolor created with: 4 examples.
R3: if X0 is SP and X3 is SP then Versicolor created with: 2 examples.
Reglas Virginica: 3
R4: if X2 is MP then Virginica created with: 11 examples.
R5: if X0 is HP then Virginica created with: 5 examples.
R6: if X0 is HN and X1 is MN then Virginica created with: 1 examples.
('Ejemplo', 'Ejemplo fuzzy', 'Nº Regla', 'Activacion', 'Clase ejemplo',
'Prediccion', 'Resultado')
([5.1, 3.4, 1.5, 0.2], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.3, 0.3], ['MN', 'SP', 'HN', 'HN'], 'R0', 1, 'Setosa',
```

```
'Setosa', 'Acierto')
([4.5, 2.3, 1.3, 0.3], ['HN', 'HN', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.4, 3.2, 1.3, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.5, 1.6, 0.6], ['MN', 'SP', 'HN', 'MN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.9, 0.4], ['MN', 'MP', 'HN', 'HN'], 'R0', 0.8, 'Setosa',
'Setosa', 'Acierto')
([5.1, 3.8, 1.6, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([4.6, 3.2, 1.4, 0.2], ['HN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.3, 3.7, 1.5, 0.2], ['MN', 'MP', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.0, 3.3, 1.4, 0.2], ['MN', 'Z', 'HN', 'HN'], 'R0', 1, 'Setosa',
'Setosa', 'Acierto')
([5.5, 2.5, 4.0, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.5, 2.6, 4.4, 1.2], ['SN', 'MN', 'SP', 'Z'], 'R1', 0.4, 'Versicolor',
'Versicolor', 'Acierto')
([6.1, 3.0, 4.6, 1.4], ['Z', 'SN', 'SP', 'Z'], 'R1', 0.1, 'Versicolor',
'Versicolor', 'Acierto')
([5.8, 2.6, 4.0, 1.2], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.0, 2.3, 3.3, 1.0], ['MN', 'HN', 'SN', 'SN'], 'R2', 0.9, 'Versicolor',
'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R1', 0.5, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R2', 0.7, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.8, 4.1, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R1', 0.8, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.8, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R4', 0.4, 'Virginica',
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([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R4', 0.2, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R4', 0.6, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R4', 1.0, 'Virginica',
'Virginica', 'Acierto')
([5.9, 3.0, 5.1, 1.8], ['Z', 'SN', 'SP', 'MP'], 'R4', 0.4, 'Virginica',
'Virginica', 'Acierto')
```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--- Informe de resultados del algoritmo --- Elsevier

Numero total de ejemplos: 150

Numero de clases: 3 Numero de variables: 4

Porcentaje de ejemplos usados para entrenamiento: 0.8%

Porcentaje de ejemplos usados para test: 0.2% Numero total de ejemplos entrenamiento: 120

Numero total de ejemplos test: 30 Numero total de ejecuciones: 10

Tiempo de ejecucion del algoritmo: 0.3s

----Resumen pruebas algoritmo----

Monescillo and company Media de P. Acierto: 99.3%

Media de P. No Clasificados: 0.3% Media de P. No Clasificados: 0.3%

Prueba	Setosa	Versicolor	Virginica	Total	Acierto	NC	Fallo
					1.00.00		
1	1	3	3	7	100.0%	0.0%	0.0%
2	1	3	3	7	100.0%	0.0%	0.0%
3	1	3	3	7	100.0%	0.0%	0.0%
4	1	3	3	7	93.3%	3.3%	3.3%
5	1	3	3	7	100.0%	0.0%	0.0%
6	1	3	3	7	100.0%	0.0%	0.0%
7	1	3	3	7	100.0%	0.0%	0.0%
8	1	3	3	7	100.0%	0.0%	0.0%
9	1	3	3	7	100.0%	0.0%	0.0%
10	1	3	3	7	100.0%	0.0%	0.0%

Amplify algorithm						El	Elsevier algorithm							
P	NRSe	NRVe	NRVi	Tot	Acc	NC	E	NRSe	NRVe	NRVi	Tot	Acc	NC	E
1	1	8	9	18	100.0	80.0°	0.0%	1	3	3	7	100.0	80.0%	0.0%
2	1	8	9	18	100.0	80.0%	0.0%	1	3	3	7	100.0	80.0%	0.0%
3	1	8	9	18	100.0	80.08	0.0%	1	3	3	7	100.0	80.08	0.0%
4	1	8	9	18	100.0	80.0%	0.0%	1	3	3	7	93.3%	3.3%	3.3%
5	1	8	9	18	100.0	80.08	0.0%	1	3	3	7	100.0	80.08	0.0%
6	1	8	8	17	100.0	%0.0%	0.0%	1	3	3	7	100.0	80.0%	0.0%
7	1	8	9	18	100.0	80.0%	0.0%	1	3	3	7	100.0	80.0%	0.0%
8	1	8	9	18	100.0	80.0%	0.0%	1	3	3	7	100.0	80.0%	0.0%
9	1	8	9	18	100.0	80.0%	0.0%	1	3	3	7	100.0	80.0%	0.0%
10	1	8	9	18	100.0	80.0°	0.0%	1	3	3	7	100.0	80.0%	0.0%

P: Prueba

NRSe: Numero de Reglas Setosa NRSe: Numero de Reglas Versicolor NRSe: Numero de Reglas Virginica

Tot: Total

Acc: Porcentaje de Acierto

NC: Porcentaje de No Clasificados

F: Porcentaje de Fallo