

--Algoritmo Amplify Iteracion 1--

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 X2 is ['HN', 'MN', 'SN', 'Z', 'SP', 'HP'] and X3 is ['MN', 'SN', 'Z'] then Versicolor created with: 20 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', '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 : 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', '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: 11 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: 4 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: 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

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

--Algoritmo Amplify Iteracion 2--

Reglas Setosa : 1

R0: 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: 20 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: 16 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', '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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
```

```
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 3--

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
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',
'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: 11 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: 4 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: 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
```

```

'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 4--

Reglas Setosa : 1

R0: 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: 20 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', '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 : 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', '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: 11 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: 4 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: 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
```



```

([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 5--

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: 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 : 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: 9 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.

('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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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')

```

'Versicolor', 'Acierto')
([5.6, 2.7, 4.2, 1.3], ['SN', 'MN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 6--

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 X0 is ['Z'] and X1 is ['HN'] and X2 is ['SP'] and X3 is ['SP'] then Versicolor created with: 1 examples.
R6: if X2 is ['HN', 'MN', 'SN', 'Z', 'HP'] and X3 is ['MN', 'SN', 'Z', 'SP'] then Versicolor created with: 7 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: 9 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')

```

([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 7--

Reglas Setosa : 1

R0: 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: 20 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', '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: 9 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

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 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')

```

```
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',  
'Virginica', 'Acierto')  
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',  
'Virginica', 'Acierto')
```

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

--Algoritmo Amplify Iteracion 9--

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
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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
```

```

'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Amplify Iteracion 10--

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 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 X3 is ['MN', 'MP', 'HP'] then Virginica created with: 11 examples.

R13: 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.

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: 5 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([5.7, 2.9, 4.2, 1.3], ['SN', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.2, 2.9, 4.3, 1.3], ['Z', 'SN', 'Z', 'Z'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
```

```
([5.1, 2.5, 3.0, 1.1], ['MN', 'MN', 'SN', 'SN'], 'R3', 1, 'Versicolor',
'Versicolor', 'Acierto')
([6.9, 3.1, 5.4, 2.1], ['MP', 'Z', 'MP', 'HP'], 'R12', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.1, 5.6, 2.4], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.9, 3.1, 5.1, 2.3], ['MP', 'Z', 'SP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([5.8, 2.7, 5.1, 1.9], ['SN', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.8, 3.2, 5.9, 2.3], ['MP', 'Z', 'HP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.3, 5.7, 2.5], ['SP', 'Z', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
([6.3, 2.5, 5.0, 1.9], ['Z', 'MN', 'SP', 'MP'], 'R9', 1, 'Virginica',
'Virginica', 'Acierto')
([6.5, 3.0, 5.2, 2.0], ['SP', 'SN', 'MP', 'MP'], 'R12', 0.9, 'Virginica',
'Virginica', 'Acierto')
([6.2, 3.4, 5.4, 2.3], ['Z', 'SP', 'MP', 'HP'], 'R10', 1, 'Virginica',
'Virginica', 'Acierto')
```

P. Acierto: 100.0%

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: 0.4s

----Resumen pruebas algoritmo----

Castro, Castro-schez, zurita

Media de P. Acierto: 100.0%

Media de P. No Clasificados: 0.0%

Media de P. No Clasificados: 0.0%

Prueba	Setosa	Versicolor	Virginica	Total	Acierto	NC	Fallo
1	1	8	8	17	100.0%	0.0%	0.0%
2	1	8	9	18	100.0%	0.0%	0.0%
3	1	8	8	17	100.0%	0.0%	0.0%

4	1	8	8	17	100.0%	0.0%	0.0%
5	1	8	9	18	100.0%	0.0%	0.0%
6	1	8	9	18	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%

--Algoritmo Elsevier Iteracion 1--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Elsevier Iteracion 2--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

```

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

```

--Algoritmo Elsevier Iteracion 3--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Elsevier Iteracion 4--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

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: 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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

P. Acierto: 100.0%

P. No Clasificados: 0.0%

P. Fallo: 0.0%

--Algoritmo Elsevier Iteracion 7--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

```

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

```

--Algoritmo Elsevier Iteracion 8--

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

```

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')  
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')  
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

```

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')
([4.8, 3.0, 1.4, 0.3], ['HN', 'SN', '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')
([5.5, 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, 3.0, 4.2, 1.2], ['SN', 'SN', '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')
([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')
([6.7, 3.0, 5.2, 2.3], ['SP', 'SN', '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')

```

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: 0.4s

----Resumen pruebas algoritmo----

Monescillo and company
Media de P. Acierto: 100.0%
Media de P. No Clasificados: 0.0%
Media de P. No Clasificados: 0.0%

Prueba	Setosa	Versicolor	Virginica	Total	Acierto	NC	Fallo
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	100.0%	0.0%	0.0%
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								Elsevier algorithm						
P	NRSe	NRVe	NRVi	Tot	Acc	NC	E	NRSe	NRVe	NRVi	Tot	Acc	NC	E
1	1	8	8	17	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
2	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
3	1	8	8	17	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
4	1	8	8	17	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
5	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
6	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
7	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
8	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
9	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	0.0%
10	1	8	9	18	100.0%	0.0%	0.0%	1	3	3	7	100.0%	0.0%	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