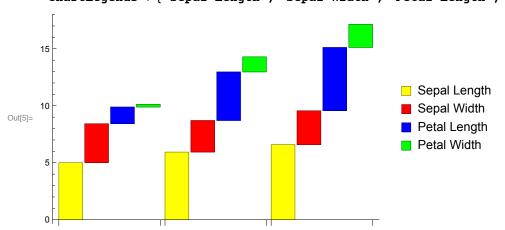
```
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    5.5, 4.2, 1.4, 0.2, "Iris-setosa",
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    6.0, 3.4, 4.5, 1.6, "Iris-versicolor",
    6.7, 3.1, 4.7, 1.5, "Iris-versicolor",
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```
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    5.5, 2.6, 4.4, 1.2, "Iris-versicolor",
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    5.8, 2.6, 4.0, 1.2, "Iris-versicolor",
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    6.9, 3.2, 5.7, 2.3, "Iris-virginica",
    5.6, 2.8, 4.9, 2.0, "Iris-virginica",
    7.7, 2.8, 6.7, 2.0, "Iris-virginica",
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    6.7, 3.3, 5.7, 2.1, "Iris-virginica",
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    6.5, 3.0, 5.2, 2.0, "Iris-virginica",
    6.2, 3.4, 5.4, 2.3, "Iris-virginica",
    5.9, 3.0, 5.1, 1.8, "Iris-virginica"};
In[3]:= a02 = Partition[a, 5]; Dimensions[a02]
Out[3]= \{150, 5\}
```

## PREPARING DATA;

```
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                                                                    \{5., 2., 3.5, 1.\}, \{5.9, 3., 4.2, 1.5\}, \{6., 2.2, 4., 1.\}, \{6.1, 2.9, 4.7, 1.4\}, \{5.6, 2.9, 3.6, 1.3\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 1.4\}, \{6.7, 3.1, 4.4, 4.4\}, \{6.7, 3.1, 4.4, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4\}, \{6.7, 3.1, 4.4
                                                                    \{5.6, 3., 4.5, 1.5\}, \{5.8, 2.7, 4.1, 1.\}, \{6.2, 2.2, 4.5, 1.5\}, \{5.6, 2.5, 3.9, 1.1\}, \{5.9, 3.2, 4.8, 1.8\}, \{6.1, 2.8, 4., 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{6.1, 2.8, 4.7, 1.3\}, \{
                                                                    \{6.3, 2.5, 4.9, 1.5\}, \{6.1, 2.8, 4.7, 1.2\}, \{6.4, 2.9, 4.3, 1.3\}, \{6.6, 3., 4.4, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 1.4\}, \{6.8, 2.8, 4.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 2.8, 4.8\}, \{6.8, 4.8\}, \{6.8, 4.8\}
                                                                    \{6., 2.7, 5.1, 1.6\}, \{5.4, 3., 4.5, 1.5\}, \{6., 3.4, 4.5, 1.6\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.3, 2.3, 4.4, 1.3\}, \{5.6, 3., 4.1, 1.3\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.3, 2.3, 4.4, 1.3\}, \{6.6, 3.7, 4.1, 1.3\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6.7, 3.1, 4.7, 1.5\}, \{6
                                                                    \{5.7, 3., 4.2, 1.2\}, \{5.7, 2.9, 4.2, 1.3\}, \{6.2, 2.9, 4.3, 1.3\}, \{5.1, 2.5, 3., 1.1\}, \{5.7, 2.8, 4.1, 1.3\}\}, \{5.7, 3., 4.2, 1.2\}, \{5.7, 2.8, 4.2, 1.3\}, \{6.2, 2.9, 4.3, 1.3\}, \{6.2, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.2, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 1.3\}, \{6.3, 2.9, 4.3, 2.9, 4.3\}, \{6.3, 2.9, 4.3\}, \{6.3, 2.9, 4.3\}, \{6.3, 2.9, 4.3\}, \{6.3, 2.9, 4.3\}, \{6.3, 2.9, 4.3\}
                                                         \{\{6.3, 3.3, 6., 2.5\}, \{5.8, 2.7, 5.1, 1.9\}, \{7.1, 3., 5.9, 2.1\}, \{6.3, 2.9, 5.6, 1.8\}, \{6.5, 3., 5.8, 2.2\},
                                                                   \{7.6, 3., 6.6, 2.1\}, \{4.9, 2.5, 4.5, 1.7\}, \{7.3, 2.9, 6.3, 1.8\}, \{6.7, 2.5, 5.8, 1.8\}, \{7.2, 3.6, 6.1, 2.5\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 3., 6.6, 2.1\}, \{7.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3., 6.6, 3.,
                                                                   \{6.5, 3., 5.5, 1.8\}, \{7.7, 3.8, 6.7, 2.2\}, \{7.7, 2.6, 6.9, 2.3\}, \{6., 2.2, 5., 1.5\}, \{6.9, 3.2, 5.7, 2.3\}, \{5.6, 2.8, 4.9, 2.\}, \{6.5, 3., 5.5, 1.8\}
                                                                   \{7.7, 2.8, 6.7, 2.\}, \{6.3, 2.7, 4.9, 1.8\}, \{6.7, 3.3, 5.7, 2.1\}, \{7.2, 3.2, 6., 1.8\}, \{6.2, 2.8, 4.8, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 1.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9, 4.8\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 3., 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 4.9\}, \{6.1, 
                                                                    \{6.4, 2.8, 5.6, 2.1\}, \{7.2, 3., 5.8, 1.6\}, \{7.4, 2.8, 6.1, 1.9\}, \{7.9, 3.8, 6.4, 2.\}, \{6.4, 2.8, 5.6, 2.2\},
                                                                    \{6.3, 2.8, 5.1, 1.5\}, \{6.1, 2.6, 5.6, 1.4\}, \{7.7, 3., 6.1, 2.3\}, \{6.3, 3.4, 5.6, 2.4\}, \{6.4, 3.1, 5.5, 1.8\}, \{6., 3., 4.8, 1.8\}, \{6.3, 2.8, 5.1, 1.5\}
                                                                    \{6.9, 3.1, 5.4, 2.1\}, \{6.7, 3.1, 5.6, 2.4\}, \{6.9, 3.1, 5.1, 2.3\}, \{5.8, 2.7, 5.1, 1.9\}, \{6.8, 3.2, 5.9, 2.3\}, \{6.9, 3.1, 5.4, 2.1\}
                                                                    \{6.7, 3.3, 5.7, 2.5\}, \{6.7, 3., 5.2, 2.3\}, \{6.3, 2.5, 5., 1.9\}, \{6.5, 3., 5.2, 2.\}, \{6.2, 3.4, 5.4, 2.3\}, \{5.9, 3., 5.1, 1.8\}\}\}
```



ITERATIVE BACKPROPAGATION ALGORITHM FOR IRIS SETOSA;

```
in[6]:= abg = { }; Do[AppendTo[abg,
                                                                                pp = 1;
                                                                               p = a2[[pp]][[nv]];
                                                                                t = 1;
                                                                                  o = a2[[pp]][[nv]][[1]] + a2[[pp]][[nv]][[2]] + a2[[pp]][[nv]][[3]] + a2[[pp]][[nv]][[4]];
                                                                                  erro1 = o (1 - o) (t - o);
                                                                                  erro2 = o (1 - o) erro1;
                                                                                  w4 = .0001 erro2 p[[4]];
                                                                                  oadj0 = (p[[1]] + p[[2]] + p[[3]] + w4 p[[4]]);
                                                                                    diff = oadj0 - t;
                                                                                  o3 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]] + a2[[1]][[1]][[3]];
                                                                                  erro13 = o3 (1 - o3) (t - o3);
                                                                                  erro23 = o3 (1 - o3) erro13;
                                                                                  w3 = 0.0001 erro23 p[[3]];
                                                                                    oadj03 = (p[[1]] + p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                                    diff3 = oadj03 - t;
                                                                                    o2 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]];
                                                                                    erro12 = o2 (1 - o2) (t - o2);
                                                                                    erro22 = o2 (1 - o2) erro12;
                                                                                  w2 = 0.0001 erro22 p[[2]];
                                                                                  oadj02 = (p[[1]] + w2 p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                                  diff2 = oadj02 - t;
                                                                                  w1 = 1 - diff2 / p[[1]];
                                                                                    \{w1, w2, w3, w4\}], \{nv, Table[k, \{k, 1, 50, 1\}]\}]; abg
\text{Out[6]= } \left\{ \left. \left\{ 10.8596 \text{,} -11.3633 \text{,} -10.206 \text{,} -1.62029 \right\} \text{,} \left\{ 9.12859 \text{,} -9.74 \text{,} -10.206 \text{,} -1.1085 \right\} \text{,} \right\} \right\}
                                                                          \{9.95222, -10.3893, -9.477, -1.04743\}, \{10.6114, -10.0647, -10.935, -1.04743\}, \{11.5379, -11.688, -10.206, -1.62029\}, \{10.6114, -10.0647, -10.935, -1.04743\}, \{11.5379, -11.688, -10.206, -1.62029\}, \{10.6114, -10.0647, -10.935, -1.04743\}, \{11.5379, -11.688, -10.206, -1.62029\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.5379, -1.04743\}, \{11.
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                                                                          \{14.9664, -12.3373, -13.851, -5.32472\}, \{9.3765, -9.74, -10.206, -1.66274\}, \{13.1298, -12.3373, -11.664, -2.08984\}, \{14.9664, -12.3373, -11.664, -11.664, -11.664\}, \{13.1298, -11.664, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1298, -11.664\}, \{13.1
                                                                        \{10.5965, -10.3893, -10.206, -1.04743\}, \{11.7486, -12.0127, -10.935, -2.08984\}, \{10.1842, -10.714, -10.206, -1.38188\}\}
```

## ITERATIVE BACKPROPAGATION ALGORITHM FOR IRIS VERSICOLOR;

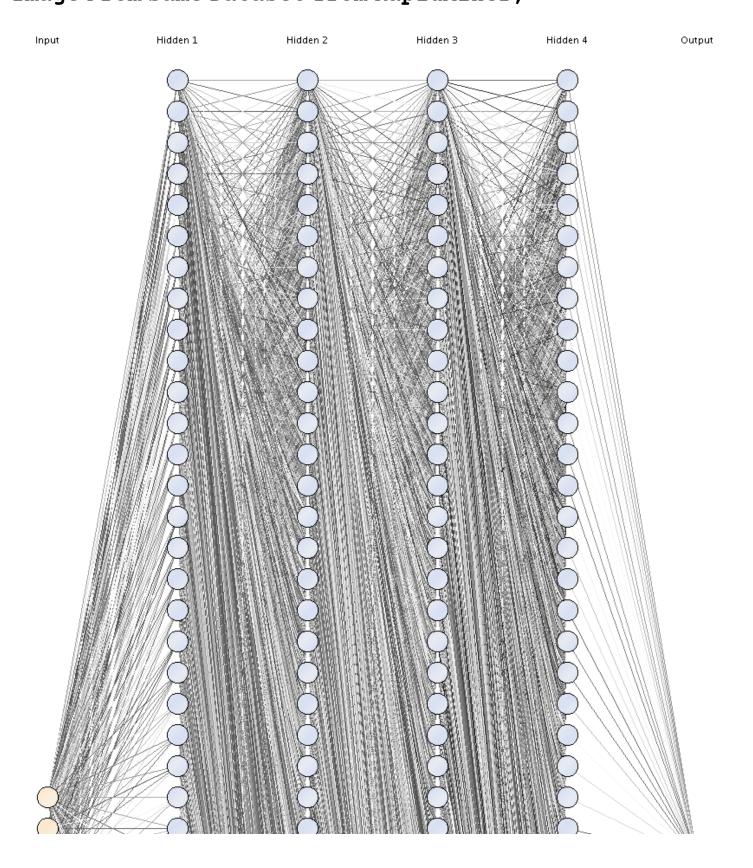
```
ln[7]:= abg2 = {}; Do[AppendTo[abg2,
                                                                              pp = 2;
                                                                                p = a2[[pp]][[nv]];
                                                                                o = a2[[pp]][[nv]][[1]] + a2[[pp]][[nv]][[2]] + a2[[pp]][[nv]][[3]] + a2[[pp]][[nv]][[4]];
                                                                                errol = o (1 - o) (t - o);
                                                                                erro2 = o (1 - o) erro1;
                                                                                w4 = .0001 erro2 p[[4]];
                                                                                 oadj0 = (p[[1]] + p[[2]] + p[[3]] + w4 p[[4]]);
                                                                                 diff = oadj0 - t;
                                                                                o3 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]] + a2[[1]][[1]][[3]];
                                                                                 erro13 = o3 (1 - o3) (t - o3);
                                                                                 erro23 = o3 (1 - o3) erro13;
                                                                                w3 = 0.0001 erro23 p[[3]];
                                                                                oadj03 = (p[[1]] + p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                                diff3 = oadj03 - t;
                                                                                o2 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]];
                                                                                 erro12 = o2 (1 - o2) (t - o2);
                                                                                 erro22 = o2 (1 - o2) erro12;
                                                                                w2 = 0.0001 erro22 p[[2]];
                                                                                 oadj02 = (p[[1]] + w2 p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                                diff2 = oadj02 - t;
                                                                                w1 = 1 - diff2 / p[[1]];
                                                                                 \{w1, w2, w3, w4\}], \{nv, Table[k, \{k, 1, 50, 1\}]\}]; abg2
                                                      \{\{59.3216, -11.7564, -38.07, -141.93\}, \{59.9571, -11.7564, -36.45, -121.387\}, \{59.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -38.07, -141.93\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -11.7564, -36.45, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{19.3216, -121.387\}, \{1
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```

## ITERATIVE BACKPROPAGATION ALGORITHM FOR IRIS VRGINICA;

```
ln[8]:= abg3 = {}; Do[AppendTo[abg3,
                                                                         pp = 3;
                                                                         p = a2[[pp]][[nv]];
                                                                           t = -1;
                                                                           o = a2[[pp]][[nv]][[1]] + a2[[pp]][[nv]][[2]] + a2[[pp]][[nv]][[3]] + a2[[pp]][[nv]][[4]];
                                                                           erro1 = o (1 - o) (t - o);
                                                                           erro2 = o (1 - o) erro1;
                                                                           w4 = .0001 erro2 p[[4]];
                                                                           oadj0 = (p[[1]] + p[[2]] + p[[3]] + w4 p[[4]]);
                                                                            diff = oadj0 - t;
                                                                            o3 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]] + a2[[1]][[1]][[3]];
                                                                            erro13 = o3 (1 - o3) (t - o3);
                                                                           erro23 = o3 (1 - o3) erro13;
                                                                           w3 = 0.0001 erro23 p[[3]];
                                                                            oadj03 = (p[[1]] + p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                            diff3 = oadj03 - t;
                                                                            o2 = a2[[1]][[1]][[1]] + a2[[1]][[1]][[2]];
                                                                           erro12 = o2 (1 - o2) (t - o2);
                                                                            erro22 = o2 (1 - o2) erro12;
                                                                            w2 = 0.0001 erro22 p[[2]];
                                                                            oadj02 = (p[[1]] + w2 p[[2]] + w3 p[[3]] + w4 p[[4]]);
                                                                            diff2 = oadj02 - t;
                                                                           w1 = 1 - diff2 / p[[1]];
                                                                            {w1, w2, w3, w4}], {nv, Table[k, {k, 1, 50, 1}]}]; abg3
         \text{Out[8]=} \quad \left\{ \left\{ 239.364, -13.5335, -53.46, -457.428 \right\}, \left\{ 96.8145, -11.0728, -45.441, -158.357 \right\}, \left\{ 96.8145, -10.0728, -45.441, -158.357 \right\}
                                                                    \{162.39, -12.3032, -52.569, -384.24\}, \{110.367, -11.8931, -49.896, -212.447\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -12.3032, -51.678, -339.343\}, \{166.492, -32.3032, -51.678, -339.343\}, \{166.492, -32.3032, -51.678, -339.343\}, \{166.492, -32.3032, -51.678, -339.343\}, \{166.492, -32.3032, -51.678, -339.343\}, \{166.492, -32.3032, -51.678, -339.343\}, \{166.492, -32.3032, -32.3032, -51.678, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.3032, -32.303
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                                                                  \{117.468, -12.3032, -46.332, -243.352\}, \{173.551, -13.9436, -48.114, -334.693\}, \{95.8134, -12.3032, -45.441, -165.356\}\}
                                                      OUTPUT;
             \ln[9] = w1 p[[1]] + w2 p[[2]] + w3 p[[3]] + w4 p[[4]]
         Out[9]= -1.
                                                      RANDOM DATASET;
        ln[10] = d = Transpose[{Table[RandomReal[{4.6, 5.5}], {50}], }]
                                                                                       Table[RandomReal[\{3, 4.4\}], \{50\}], Table[RandomReal[\{1, 1.9\}], \{50\}], Table[RandomReal[\{0.1, 0.4\}], \{50\}]\}]
 \mathsf{Out}_{[10]} = \{ \{5.00485, \, 3.66976, \, 1.72824, \, 0.121845 \}, \, \{5.00242, \, 3.35564, \, 1.51949, \, 0.353782 \}, \, \{5.00242, \, 3.35564, \, 1.51949, \, 0.353782 \}, \}
                                                                    \{4.92933, 4.22761, 1.62141, 0.227208\}, \{5.3929, 4.39003, 1.89383, 0.120412\}, \{5.0521, 3.84548, 1.21131, 0.362942\}, \{5.0521, 3.84548, 1.21131, 0.362942\}, \{5.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21131, 0.362942\}, \{6.0521, 3.84548, 1.21141, 0.362944, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0.39444, 0
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                                                                    {4.96694, 4.19535, 1.13031, 0.351697}, {4.85842, 4.28049, 1.68818, 0.171709}, {4.6377, 3.89928, 1.05892, 0.198634},
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                                                                  \{4.6334, 3.48604, 1.64679, 0.367505\}, \{5.16063, 4.26902, 1.54035, 0.265195\}, \{4.94488, 3.0335, 1.0776, 0.192489\}\}
        In[11]:= Total[Total[a2[[2]] abg2]]
Out[11]= 0.
      in[12]:= Total[Total[a2[[3]] abg3]]
Out[12]= -50.
     In[13]:= Total[Total[d abg]]
Out[13]= 8.01828
     In[14]:= Total [Total [d abg2]]
  Out[14]= 6790.19
```

```
In[15]:= Total[Total[d abg3]]
Out[15]= 27419.6
 \label{eq:setAccuracy} $$\inf_{16}:= \{ SetAccuracy[1/(1+2.71^+50), 3], 1/(1+2.71^0), 1/(1+2.71^-50) \} $$
Out[16]= \left\{0.\times10^{-3}, 0.5, 1.\right\}
 Out[17]=
  ||n||_{1} = ListLinePlot[1 / (1 + 2.71^- + b \& /@ Table[k, \{k, -50, 50, .01\}], ImageSize \rightarrow 500, PlotStyle \rightarrow \{Blue, Thick\}]
                   1.0
                  0.8
                  0.6
Out[18]=
                  0.4
                                                                                                                                                                                                                                                   10000
 \label{eq:local_local_local} $$ \inf[19]:=$ $ Flatten[{Mean[a2[[#]]] & /@ {1, 2, 3}, {Mean[d]}}, 1] $$ $$
\texttt{Out[19]=} \ \left\{ \{5.006, \, 3.418, \, 1.464, \, 0.244 \}, \, \{5.936, \, 2.77, \, 4.26, \, 1.326 \}, \, \{6.588, \, 2.974, \, 5.552, \, 2.026 \}, \, \{5.1105, \, 3.69736, \, 1.41926, \, 0.244047 \} \right\}
  \label{eq:local_local_local_local_local} $$\inf[20]:=$ BarChart[Flatten[{Mean[a2[[\#]]] \& /@ {1, 2, 3}, {Mean[d]}}, 1], ChartLayout $\to $$"Stepped", $$\lim_{t\to\infty} \frac{1}{t} \left( \frac{1}{t} \right) \left( \frac{1
                      ChartStyle → {Yellow, Red, Blue, Green}, ChartLegends → {"Sepal Length", "Sepal Width", "Petal Length", "Petal Width"}]
                   15
                                                                                                                                                                                                      Sepal Length
                                                                                                                                                                                                       Sepal Width
Out[20]=
                                                                                                                                                                                                      Petal Length
                                                                                                                                                                                                             Petal Width
  ln[21]:= z = Flatten[{abg, abg2, abg3}];
  ln[22] = z4 = Total[Abs[z[[#]]] & /@Table[k, {k, 4, 600, 4}]]
Out[22]= 19531.5
 \label{eq:local_loss} \mbox{ln[23]:= } \mbox{ $z$ = $Total[Abs[$z[[$\#]]] & $/@$ Table[$k, $\{k, 3, 599, 4\}]]$}
Out[23]= 4732.34
 \label{eq:local_loss} \mbox{ln[24]:= } \mbox{ $z$ = $Total[Abs[$z[[$\#]]] & $/@$ Table[$k, $\{k, 2, 598, 4\}]]$}
Out[24]= 1673.51
 ln[25] = z1 = Total[Abs[z[[#]]] & /@Table[k, {k, 1, 597, 4}]]
Out[25]= 10132.3
                   WEIGHTS AFTER BACKPROPAGATION;
  ChartLegends → {"Weight Sepal Length", "Weight Sepal Width", "Weight Petal Length", "Weight Petal Width"}]
                  20000
                   15000
                                                                                                                                                                                                     Weight Sepal Length
                                                                                                                                                                                                      Weight Sepal Width
Out[26]= 10 000
                                                                                                                                                                                                      Weight Petal Length
                                                                                                                                                                                                      Weight Petal Width
                     5000
```

## Image From Same Dataset from RapidMiner;



-9.08203, -7.62813, -7.99051, -6.61478, -8.75866, -8.33821, -7.56262, -8.84066, -8.67594, -8.25217, -8.25217, -7.62813, -9.68472, -9.54188, -8.44138, -8.16552, -8.9219, -8.44138, -7.54379, -8.67594, -8.10815, -6.84267, -7.72397, -5.33829, -7.67011, -7.70118, -9.08203, -7.99051, -9.08203, -8.42362

