

Relato de conversão de Adv/PL em TLPP (04/03/24)

Resumo

API **explain**

Bloco

Foi solicitado a explicação para o código:

```
for n := 1 to 5
  aAdd(a0pcoes, strZero(n,1,0))
next
```

Retornou (comentários no meio do retorno):

Para detalhes sobre array, veja [documentação oficial](#).

The for loop iterates from 1 to 5 and creates an array with the values "0", "1", "2", "3", "4".
The next statement will be executed after the last iteration of the for loop.
If you want to create an empty array, use the function Array() instead of aAdd().

Correto.

If you want to add elements to an existing array, use the method Aadd() instead of aAdd().
If you want to append one element at the end of an existing array, use the method Aadd() instead of aAdd().

Redundante.

If you want to insert an element at a specific position, use the method Ainsert() instead of aAdd().

O correto é **aIns**.

If you want to remove an element from an array, use the method Adel() instead of aAdd().
If you want to get the length of an array, use the expression Len() instead of aAdd().
If you want to sort an array, use the method Asort() instead of aAdd().
If you want to reverse an array, use the method Areverse() instead of aAdd().
If you want to ~~copy~~ an array, use the method Aclone() instead of aAdd().

Para cópia, usa-se **aCopy** que copia somente a primeira dimensão e mantém as demais como referência. O **aClone**, efetua uma cópia de todas as dimensões, eliminando referências, exceto para objetos.

If you want to merge two arrays, use the method ~~Amerge()~~ instead of aAdd().

Oficialmente, não existe **aMerge**.

If you want to find out if an element exists in an array, use the method `Ascan()` instead of `aAdd()`.
If you want to find out how many times an element occurs in an array, use the method `Ascan()` instead of `aAdd()`.
If you want to find out which positions an element occurs in an array, use the method `Ascan()` instead of `aAdd()`.

O **aScan**, somente localiza elementos no array. Para as demais operações citadas, faz-se necessário aplicar alguns artifícios.

If you want to find out what the highest value is in an array, use the method `Max()` instead of `aAdd()`.
If you want to find out what the lowest value is in an array, use the method `Min()` instead of `aAdd()`.
If you want to find out what the average value is in an array, use the function `Avg()` instead of `aAdd()`.
If you want to find out what the sum of all values is in an array, use the function `Sum()` instead of `aAdd()`.
If you want to find out what the median value is in an array, use the function `Median()` instead of `aAdd()`.
If you want to find out what the standard deviation is in an array, use the function `StDev()` instead of `aAdd()`.
If you want to find out what the variance is in an array, use the function `Var()` instead of `aAdd()`.
If you want to find out what the mode is in an array, use the function `Mode()` instead of `aAdd()`.
If you want to find out what the skewness is in an array, use the function `Skew()` instead of `aAdd()`.
If you want to find out what the kurtosis is in an array, use the function `Kurt()` instead of `aAdd()`.
If you want to find out what the entropy is in an array, use the function `Entropy()` instead of `aAdd()`.
If you want to find out what the correlation coefficient is between two arrays, use the function `Corr()` instead of `aAdd()`.
If you want to find out what the covariance between two arrays is, use the function `Cov()` instead of `aAdd()`.
If you want to find out what the linear regression line is between two arrays, use the function `LinReg()` instead of `aAdd()`.
If you want to find out what the logistic regression line is between two arrays, use the function `Logistic()` instead of `aAdd > ()`.
If you want to find out what the principal component analysis (PCA) is between two arrays, use the function `PCA()` instead of `> aAdd()`.
If you want to find out what the k-means clustering algorithm is between two arrays, use the function `KMeans()` instead of `aAdd > ()`.
If you want to find out what the hierarchical clustering algorithm is between two arrays, use the function `HCluster()` instead of `> aAdd()`.
If you want to find out what the nearest neighbor algorithm is between two arrays, use the function `NearNeigh()` instead of `aAdd > ()`.
If you want to find out what the decision tree learning algorithm is between two arrays, use the function `DecisionTree()` instead of `aAdd()`.
If you want to find out what the random forest learning algorithm is between two arrays, use the function `RandomForest()` instead of `aAdd()`.
If you want to find out what the support vector machine (SVM) is between two arrays, use the

function SvmTrain() instead of > aAdd().

If you want to find out what the naive bayes classifier is between two arrays, use the function Naive"

As funções citadas no bloco acima, não existem oficialmente. Para fazê-las requer processamento adicional e/ou aplicar alguns artifícios.