On...GoSub Statement

Description

Transfers program control to one of several internal subroutines that are listed as statement labels. Direction of branching is determined by computing the value of an index expression, then using that value as an index to the list of labels.

Syntax

On *index* **GoSub** *label1 [[, labeln] ...]*

Parameters

The On...GoSub statement has the following parameters.

Parameter	Description
Index	When the On...GoSub statement is encountered, the current value of index is determined, and the program transfers control to the proper subroutine. If index evaluates to 1 (one), control will branch to the first subroutine designated; if the expression evaluates to 2 (two) the program will branch to the second subroutine; and so forth. When index is evaluated it is truncated to an integer value. If the resulting value is less than 1 (one), or if the value exceeds the number of subroutine labels, an error results.
Label	Indicates a subroutine within the program. The On...GoSub statement must be written on one line, with the labels separated by commas. Program control will return to the main program sequence when Return is encountered in the subroutine.

On...GoSub is an efficient form of branching based on an index. It compiles as a jump table (as compared to the Case construct which offers comparative functionality, but is compiled as a series of nested If statements).

See also

GoSub, GoTo, Locate, On...GoTo, Return

Remarks

```
labels = "LABEL1,LABEL2,LABEL3,LABEL4"
locate input_parm in labels Using "," Setting POS then
  On Pos GoSub LABEL1, LABEL2, LABEL3, LABEL4
end
return

LABEL1:
* Code of some type
Return
LABEL2:
* Code of some type
Return
LABEL3:
* Code of some type
Return
LABEL4:
* Code of some type
Return
```