

# WHILE..DO

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## While ... DO loops

3Db - WHILE..DO (author: Tao Yue, state: unchanged)

The pretest loop has the following format:

```
while BooleanExpression do  
    statement;
```

The loop continues to execute until the Boolean expression becomes `FALSE`. In the body of the loop, you must somehow affect the Boolean expression by changing one of the variables used in it. Otherwise, an infinite loop will result:

```
a := 5;  
while a < 6 do  
    writeln (a);
```

Remedy this situation by changing the variable's value:

```
a := 5;  
while a < 6 do  
    begin  
        writeln (a);  
        a := a + 1  
    end;
```

The `WHILE ... DO` loop is called a pretest loop because the condition is tested before the body of the loop executes. So if the condition starts out as `FALSE`, the body of the `while` loop never executes.

## See also

[FOR ...DO loops](#)

[Repeat... Until loops](#)

[For... in loops](#)



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