



## VBA Control Commands:

• What are control commands?

- If ... Then (already known)

- Select Case (already known)

- Do .... Loop

- For ... Next
- While ... Wend
- For each ... Next

- Goto

- With ... End With

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- In the DO WHILE ...LOOP the looping continues <u>while</u> the condition is true.
- In the DO UNTIL ...LOOP the looping continues <u>until</u> the condition is true.

• EXIT DO terminates the looping.

**●**<sup>™</sup> Warning: Make sure you do not construct infinite loops.

In case this happens use: Ctl + Break to abort

• Example: Write a function which checks the following identity:

$$\sum_{a=1}^{n} a = \frac{n(n+1)}{2}$$

• Code: Function GSUM(n) a = 0Do Until a = n + 1or (Do While a < n + 1) GSUM = GSUM + aa = a + 1Loop **End Function** gives for instance:  $GSUM(112) \Rightarrow 6328 = 112 * 113/2$ • equivalently: Do GSUM = GSUM + aa = n Then Exit Do If a = a + 1Loop







