**Writing Algorithms**

When writing Algorithms you can either write them using a Flowchart or Pseudo Code

When using a **flowchart** these are the standard symbols:

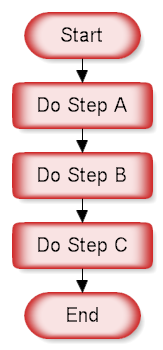
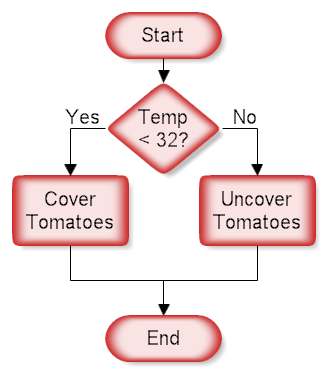
Decision

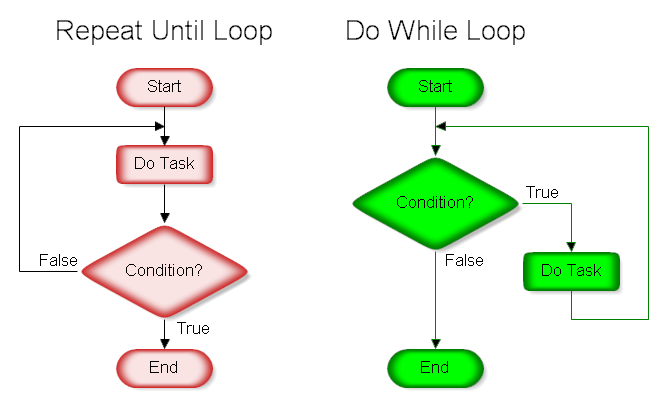
Shows Data Flow

Input/Output

Process

Examples of Sequence, Selection and Loops in Flowcharts

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[](http://www.google.co.uk/url?sa=i&rct=j&q=flow+chart+loop&source=images&cd=&cad=rja&docid=YOCVF6-_TRwWVM&tbnid=OoFBD29SyU_ckM:&ved=0CAUQjRw&url=http://www.rff.com/structured_flowchart.htm&ei=0P9gUqnSH8LBhAeXt4C4Aw&bvm=bv.54934254,d.ZG4&psig=AFQjCNHncOjpzKoFX7dJm_abBESAD6fQ-A&ust=1382175038998406)

Standard Key Words to use in **Pseudo Code**

|  |  |
| --- | --- |
| **Technique** | **Example** |
| **Selection/Conditional Statement** | **IF** *condition* **THEN**  *true alternative*  **ELSE**  *false alternative*  **ENDIF** |
| **Iteration/Loops** | **FOR** *i to/in …*  *statements to carry out*  **END** FOR  **WHILE** *condition* **THEN**  *statements to carry out*  **END WHILE**  **REPEAT** *statement* **UNTILL …** |
| **Operators** | > Greater Than  < Less Than  >= Greater than or equal to  <= Less than or equal to  == Equal To  = Equals  != not equal to |
| **Input and Output** | **INPUT….**  **OUTPUT…** |
| **Function/Procedure** | **PROCEDURE** *name*  **END PROCEDURE**  **FUNTION** *name*  **END FUNTION** |