Leapyear function(year)

First 'if' statement:

Checks condition:

if not met, go to next statement

Second 'if' statement:

Checks condition:

if not met, go to next statement

Last 'if' statement:

Checks condotion

Returns result and stops the algorithm. Only if condiotion is met

The diagram shows the different stages and operations of the boolean function 'leapyear'. The function takes an integer 'year' as an parameter, which will be inputted by a user. A solid line in the diagram shows an operation which is bound to happen if the user inputs a valid input. The dotted lines illustrates which steps the algorithm will take, depending on the different conditions which can trigger different operations. For example if the first 'if' statements' condition is met the function will return a result and stop the algorithm, if not, the next 'if' statement will be evaluated and so on. If the algorithm reaches the third and last statement, either false or true will be returned as a result.

The rectangle shows the start of the function, where a user input is needed. The the rhomb figures show the 'if' statements, which the algorithm potentially will check. The lines show the potential different steps the algorithm can take, and the circle shows the result of the function.