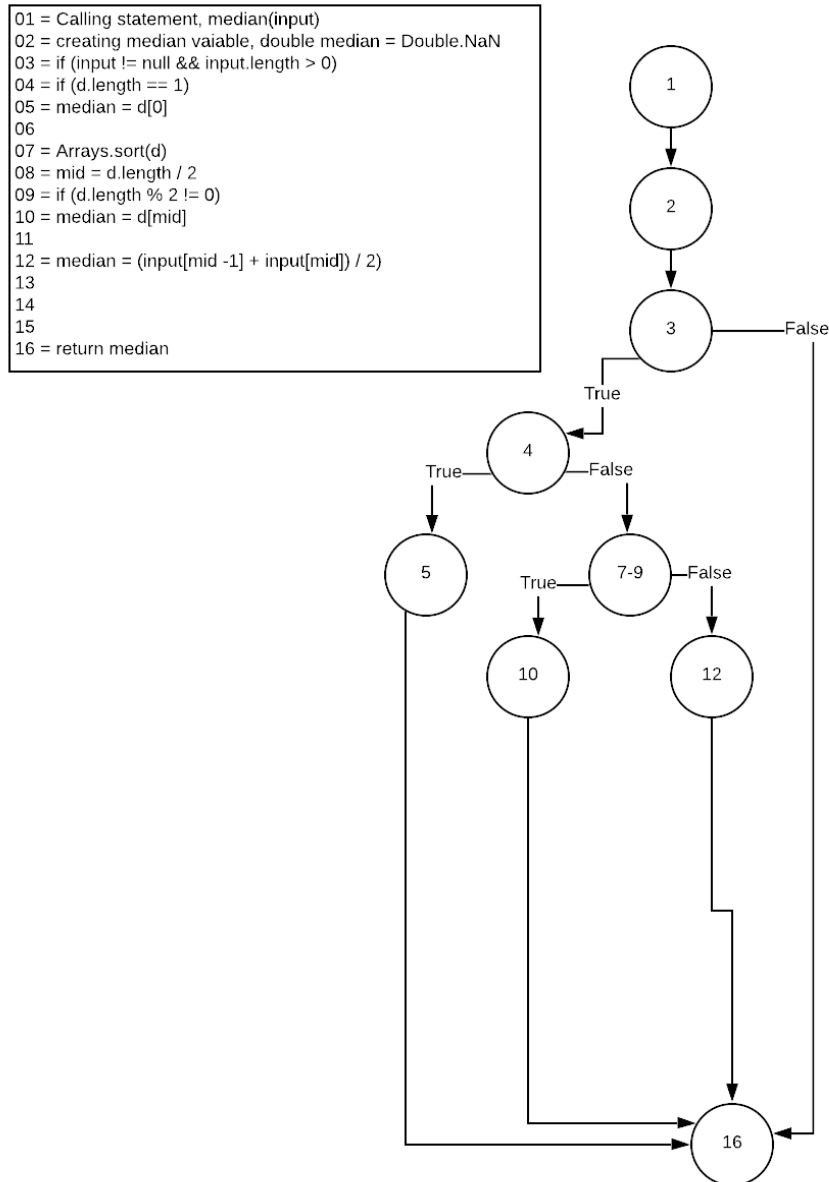


1. `&&` is a logical operator and if the first condition is false it will not check the second condition, the entire statement would just be false because of that. Whereas `&` is a bit wise operator and whether the first condition is true or false it will still check for the second condition to see whether it is true or false



- 2.
3. inputted array = [1, 2, 3, 4]
 - a. this would satisfy the first if statement because the array is not null and length is greater than 1. then it would not satisfy the next if statement because the length does not equal 1. it then would not satisfy the next if statement because the length of this array is 4, which $4\%2$ does equal 0, and would move on the the else statement to find that the median is 2.5