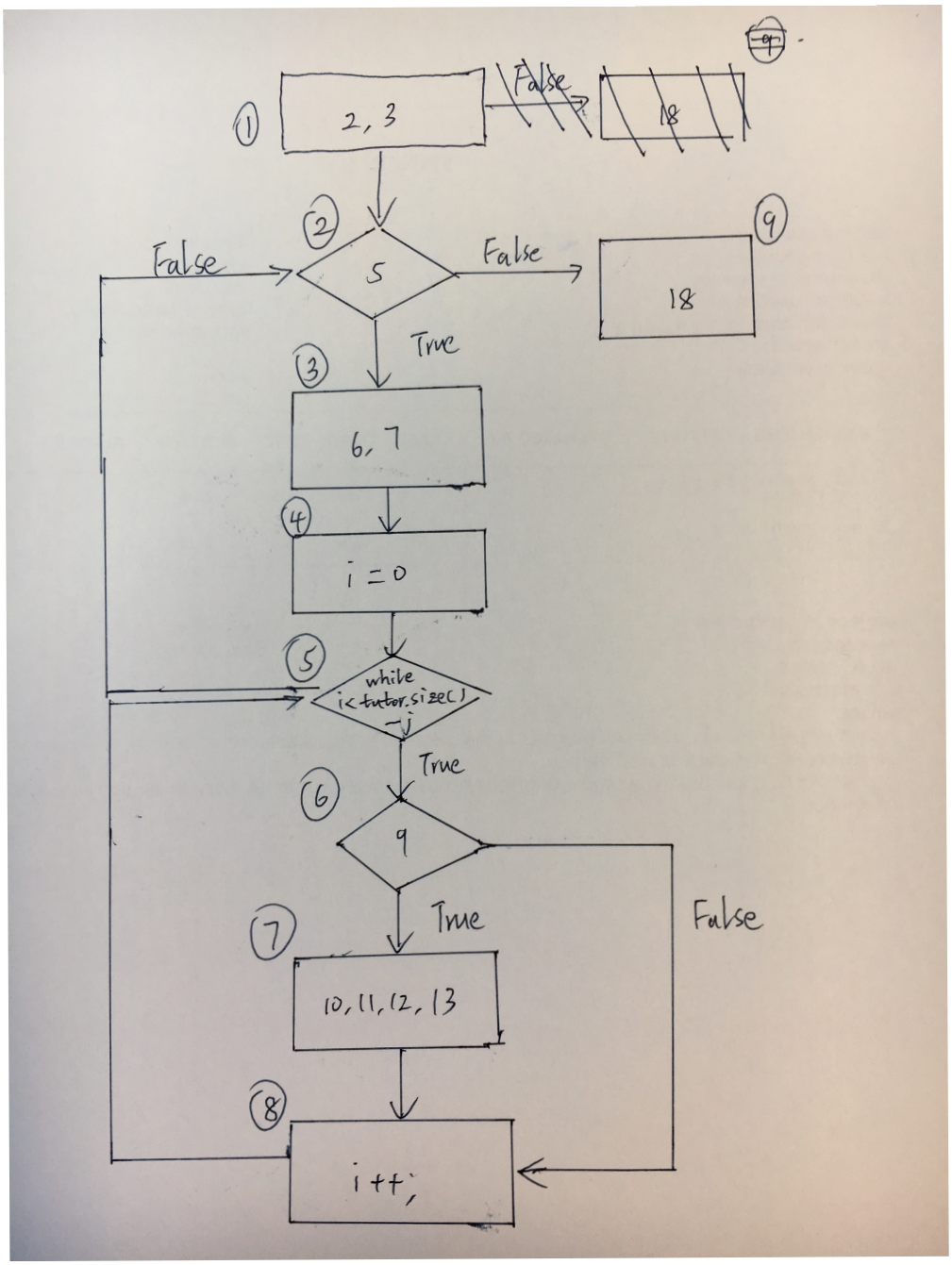
1. The corresponding control flow graph is illustrated as following



2.
The execution path for 100% statement coverage should be 1,2,3,4,5,6,7,4,2,8
The execution past for 100% branch coverage should be 1,2,3,4,5,7,4,2,8
since the sort application function is a sort function of the elements saved in the list “tutor” thus
the test case for 100% statement coverage should be list<tutor> = [3,2]
the test case for 100% branch coverage should be list<tutor> = [2,3]

3.
To calculate the cyclomatic complexity, we need to know the edges and nodes of the control flow graph
nodes = 9
edges = 11
cyclomatic complexity = 11-9+2 = 4

Basic path 1 : 1,2,3,4,5,6,7,8,5,2,9 test case: list<tutor> = [3,2]
Basic path 2 : 1,2,3,4,5,2,9 test case :list<tutor> = empty
Basic path 3 : 1,2,3,4,5,6,8,5,2,9 test case : list <tutor> = [2,3]
Basic path 4 : infusible path