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EXPERIMENT NO. 8

Aim: White Box Testing: Find out the cyclomatic complexity for your project

Program:

DECLARE n, i

PRINT "Insert the starting number."

WHILE n < 0

READ n

IF n < 0

PRINT "Insert a non negative number"

PRINT n

WHILE n != 1

IF n MOD 2 == 0

SET n = n/2

ELSE

SET n = 3 × n + 1

PRINT n

SET i = 0

WHILE i < 3

IF n MOD 2 == 0

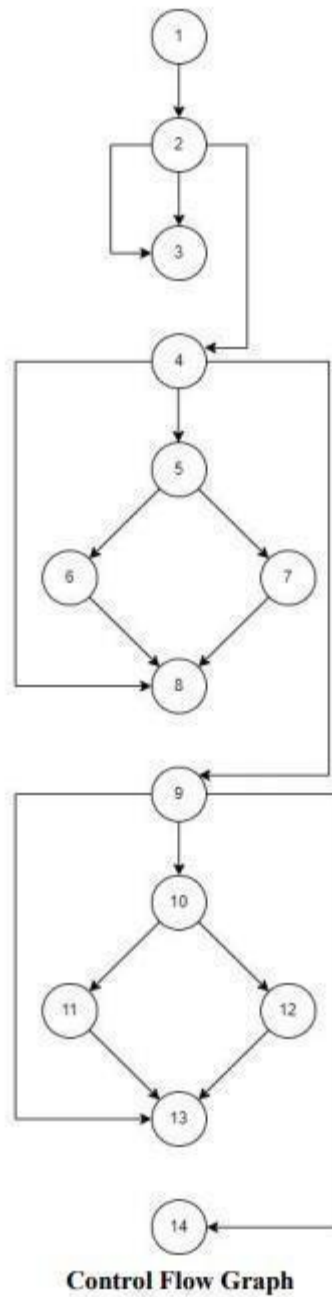
SET n = n/2

ELSE

SET n = 3 × n + 1

PRINT n

INCREMENT i



Cyclomatic Complexity:

Method 01:

Cyclomatic Complexity = Total number of closed regions in the control flow graph + 1
 = 5+1

= 6 Cyclomatic Complexity:

6 Method

02:

Nodes: 14

Edges: 18

Cyclomatic Complexity = $E - N + 2$

= $18 - 14 + 2$

= 6

Cyclomatic Complexity: 6