

Number of the decision nodes (atile and if): 02

Number of edges: 08

Number of notes: 07

Number of connected component: 01

Nows

cyclomatic complexity:
$$E - N + 2P$$

$$\Rightarrow \{(8-7) + (2\times1)\}$$

$$\Rightarrow (1+2)$$

$$\Rightarrow 3$$

The cyclomatic complexity of the graph is three (09) there will be three (09) independent paths in the graph.

As shown below of the paths: -

リ AoBoDoEog

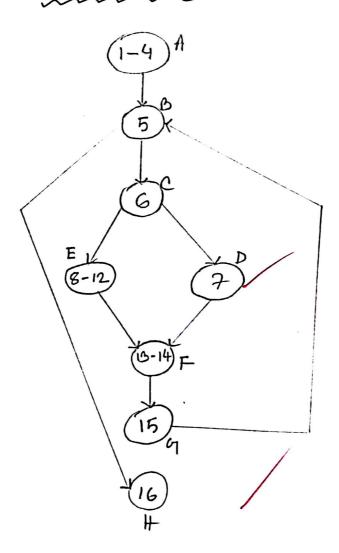
リ) A3B3C3D3E39

ijj AシBラCシDラFラり

Test case design from the independent paths:

Test ID	Input	Expected Result	Independent paths covered by test cose	
Ol	0	Disa palindrome	AつBつDつEつの	
02	1	115 a palindrome	A o D o C o D o E o 4	
03	10	10 is not a palindrome	A o B o C o D o F o G	

Ans to the question no:02.



Number of decision nodes (it):01

Number of edges: 09

Number of nodes: 08

Number of connected component: 01

Now;

cyclomatic complexity: E-N+2P

The cyclomatic complexity of the graph is three (03) there will be three (03) independent paths in the graph.

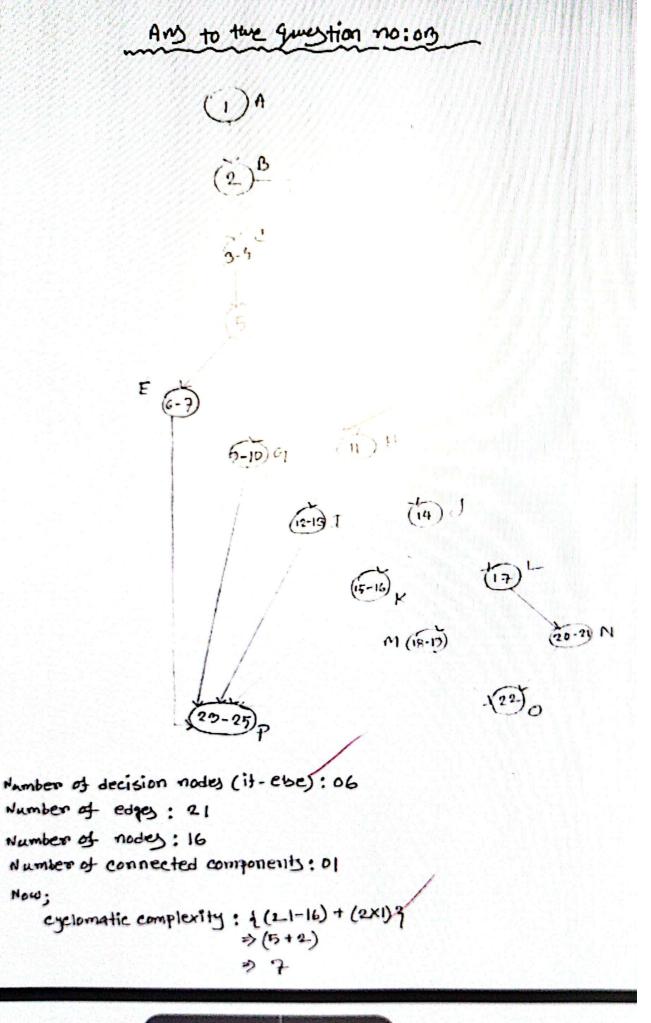
As shown below of the pathy:

- n AつBつH
- u) AつBつCつDっようのつBつH
- ui) チョ らっとっとっよっ ケ つ らっ ナ

Test case design from the independent paths:

Test ID	Input	Expected Result	Independent paths covered by test case
01	0	first oterms of fibonacci series:	A→B→ H-
02	l	first 1 terms of fibonacci series: 0	A>B>C-DD->F > U->B->H
03	03 2 First 2 terms of fibonic series: 0		AつかつCつEつFうUつBつH





Now;

The cyclomatic complexity of the graph is seven (07) there will be seven (07) independent paths in the graph.

As shown below of the paths:

- 1) AABACADAEAP
- リカラカラトラロット
- III) A-) B-) D-) E-) P

1

- M HOBODOFOHOLOP
- V) A-B-D-F-H-J-K-P
- VI) の B つ D つ F つ H つ J つ L つ M つ O つ P
- VII) AoBoDOFoHoJoLoNOOP

Test case design from the independent paths:

Test ID	Input	amount	Expected Result	Independent pathy converce by test cose
01	Yes	1000	1799.5	₽÷₽÷₽
02	No	999	1151.3475	A>B>D>F>4>P
03	No	1000	1785	A-JB-JD-JE-P
04	No	199	226.6779	4-16-16-16-16-16-16-16-16-16-16-16-16-16-
05	No	99	116.1275	9-36-16-16-16-16-16-16-16-16-16-16-16-16-16
06	ND	49	59.8025	A7B7D->F->H->J->L->M->
07	ND	24	199	646764646464646464646464646464646464646

