

CBSE NET JUNE 2012 PAPER III

Which one of the following statements is incorrect ?

- (A) The number of regions corresponds to the cyclomatic complexity.
- (B) Cyclomatic complexity for a flow graph G is $V(G) = N - E + 2$, where E is the number of edges and N is the number of nodes in the flow graph.
- (C) Cyclomatic complexity for a flow graph G is $V(G) = E - N + 2$, where E is the number of edges & N is the number of nodes in the flow graph.
- (D) Cyclomatic complexity for a flow graph G is $V(G) = P + 1$, where P is the number of predicate nodes contained in the flow graph G.

Ans: (B)

Explanation:

To solve above problem, first remember these 3 rules to compute the cyclomatic complexity.

1. The number of regions correspond to the cyclomatic complexity.

2. Cyclomatic complexity $V(G)$ for a flow graph G, is defined as,

$$V(G) = E - N + 2$$

where E = Number of flow graph edges

N = Number of flow graph nodes

3. Cyclomatic complexity, $V(G)$ for a flow graph G, is defined as,

$$V(G) = P + 1$$

where P = Number of predicate nodes contained in flow graph G.

Now come to the solution for above problem,

According to the rules given in (1), (2) and (3), option B is incorrect.

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