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Quiz



5 of 10 QUESTIONS

### QUESTION 5

5 marks

Let  $w(n)$  and  $A(n)$  denote respectively, the worst case and average case running time of an algorithm executed on an input of size  $n$ . which of the following is ALWAYS TRUE?  
(GATE CS 2012)

(A)  $A(n) = \Omega(W(n))$

(B)  $A(n) = \Theta(W(n))$

(C)  $A(n) = O(W(n))$

(D)  $A(n) = o(W(n))$

☐ A

☐ B

☒ C

☐ D

Your submitted response was correct.

Explanation

The worst case time complexity is always greater than or same as the average case time complexity.

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