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Time Complexity
1.
What is the time complexity of the following loop:
for( int i = 1 ; i <= n ; i++ )
    for( int j = 0 ; j <= n ; j++ )
       //0(1) statement/s
A. 0(n/2)
B. 0(2n)
C. 0(n^2)
D. None of the above
Answer: C
Measures of analysis of an algorithm are
A. Time & Space
B. Variables and Functions
C. Both A & B
D. None of the above
Answer: A
3.
         is a mathematical way to calculate space and
time complexity of an algorithm without implementing it
in any programming language.
A. Mathematical Analysis
B. Asymptotic Analysis
C. Algorithm Analysis
D. All of the above
Answer: B
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Time Complexity
4.
What is the time complexity of the following loop:
//whereas "n" is any constant
for( int i = 1 : i \le n : i++ )
{
   //0(1) statement/s
A. O(n)
B. 0(1)
C. 0(log n)
D. 0(2*n)
Answer: B
5.
To represent worst case time complexity following
asymptotic notation is used
A. Big Omega
B. Big Theta
C. Big Oh
D. None of the above
Answer: C
When the running time of an algorithm is neither
minimum nor maximum it is reffered as ______.
A. Average case time complexity
B. Moderate case time complexity
C. Best case time complexity
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- D. Worst case time complexity

Answer: A

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Time Complexity
7. _notation is used to represent asymptotic
lower bound.
A. Big Omega
B. Big Theta
C. Big Oh
D. None of the above
Answer: A
8.
        notation is used to represent asymptotic
upper bound.
A. Big Omega
B. Big Theta
C. Big Oh
D. None of the above
Answer: C
9.
    ____notation is used to represent asymptotic
tight bound.
A. Big Omega
B. Big Theta
C. Big Oh
D. None of the above
Answer: B
10.
What is the time complexity of the following loop:
for( int i = 1 ; i <= n ; i *= 2 )
{
   //0(1) statement/s
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```

Time Complexity



- A. O(n/2)
- B. 0(2*n)
- C. O(log n)
- D. None of the above

Answer: C

