



Welcome!

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My Assessment

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Quiz · 15 mins

```
1. int a = 0, b = 0;
  for (i = 0; i < N; i++)
  {
    a = a + rand();
  }
  for (j = 0; j < M; j++)
  {
    b = b + rand();
}</pre>
```

○ O(N * M) time, O(1) space





- O(N+M) time, O(1) space
- \bigcirc O(N * M) time, O(N + M) space

- 2. The complexity of linear search algorithm is
 - O(n)
 - O(log n)
 - O(n2)
 - O(n log n)

```
3. int a = 0;
for (i = 0; i < N; i++)
{
  for (j = N; j > i; j-)
  {
    a = a + i + j;
}
```





- O(n)
- O(N*log(N))
- O(N * Sqrt(N))
- O(N*N)

- 4. The Worst case occur in linear search algorithm when
 - O ltem is somewhere in the middle of the array
 - O Item is not in the array at all
 - O Item is the last element in the array
 - Item is the last element in the array or is not there at all

5. int i, j, k = 0; for (i = n / 2; i <= n; i++)





| k = k + n / 2; } } |
|---|
| ○ O(n) |
| O(nLogn) |
| ○ O(n^2) |
| ○ O(n^2Logn) |
| |
| 6. The worst case occur in quick sort when |
| Pivot is the median of the array |
| O Pivot is the smallest element |
| Pivot is the middle element |
| None of the mentioned |





more efficient than Y?

- X will always be a better choice for small inputs
- X will always be a better choice for large inputs
- Y will always be a better choice for small inputs
- X will always be a better choice for all inputs

- 8. The complexity of Fibonacci series is
 - O(2n)
 - O(log n)
 - O(n2)
 - O(n log n)

9. int a = 0, i = N;





| а | + | = | į |
|---|---|---|---|
|---|---|---|---|

$$i/=2;$$

}

- O(n)
- O(Sqrt(N))

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- O(N/2)
- O(log N)

- 10. The complexity of Binary search algorithm is
 - O(n)
 - O(log)
 - O(n2)
 - O(n log n)





- O(n)
- O(log n)
- O(n2)
- O(n log n)

- 12. The complexity of Bubble sort algorithm is
 - O(n)
 - O(log n)
 - O(n2)
 - O(n log n)

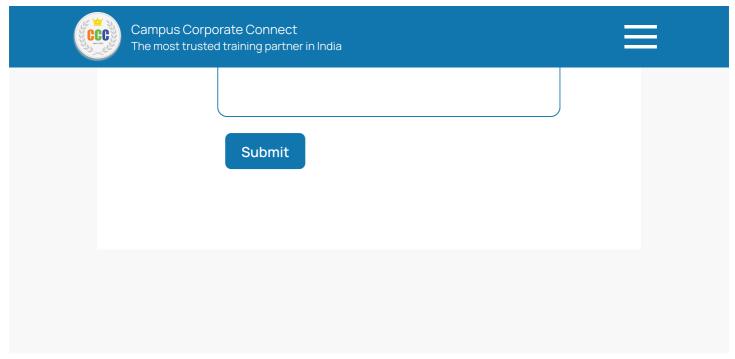
- 13. The worst case complexity for insertion sort is
 - O(n)



- O(n2)
- O(n log n)

- 14. The worst case complexity of quick sort is
 - O(n)
 - O(log n)
 - O(n2)
 - O(n log n)

- 15. If for an algorithm time complexity is given by O(1) then complexity of it is:
 - A. constant
 - o constant
 - polynomial
 - exponential



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