```
a.) for(i=1;i<=n;i++)</li>
for(j=i;i<=n;j++)</li>
printf("Hi");
```

Answer: -

for outer loop time complexity = O(n)for inner loop time complexity = O(n)for line3 time complexity = O(1)

Then the final time complexity = $O(n)^* O(n) *O(1) = O(n^2)$

Answer: -

Line 1 will run log n times. The time complexity becomes O(log3 n)[i.e log n base 3].

Line 2, the inner loop will run a max of n-1 times for each outer loop iteration. Time complexity is O(n-1) = O(n)

Line 3 is of constant complexity O(1).

Total time complexity is $O(\log n) * O(n) * O(1) = O(n \log 3 n)$