

Assignment 1 | 18th January 2021

For any doubts regarding the assignment, ask questions in the [Data Structures and Algorithms](#) Group in the Community.

Submit Assignments by **26th January 2021 11:59 PM**

Assignment Submit Form: <https://forms.gle/bJBQwoRVk4P8SR4T8>

Submit assignments in Appropriate Dropdowns.

Question 1

What is the time, space complexity of following code:

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

And: $O(N + M)$ time, $O(1)$ space

Question 2

What does it mean when we say that an algorithm X is asymptotically more efficient than Y?

- a) X will be a better choice for all inputs
- b) X will be a better choice for all inputs except possibly small inputs
- c) X will be a better choice for all inputs except possibly large inputs
- d) Y will be a better choice for small inputs

And: B

FAQs

Q. When do I submit the Assignments and how?

- A. The assignments for the week should be submitted by 26th January 2021 i.e. Tuesday 11:59 PM IST.
- B. You need to submit the answers in Document Format

Q. Where do I get class links for the next session?

- A. All sessions will be Live on our Youtube Channel. Subscribe to LetsUpgrade [YouTube Channel](#). You'll also get an email with the link to the live session.
- B. It will be also updated in the Community Group in the pinned post.

Q. I have some doubt, who do I ask?

- A. Post your Queries on the community, someone will help you out.

Q. How can we know if my assignment is verified or not? And is it successfully submitted or not?

- A. You will receive a mail for your successful submission.