

Group 3 Manual

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Last Updated : March 22, 2021

Contents

1	Assignment 1	1
1.1	System Setup	1
2	Switching from C to C++	2
2.1	Why so serious?	2
3	Assignment 2	3
3.1	How much do you know?	3
3.1.1	Level 1	3
3.1.2	Level 2	3
3.1.3	Level 3	3

Chapter 1

Assignment 1

1.1 System Setup

- Install an editor/IDE
- Choose a Language
- Install a compiler

Chapter 2

Switching from C to C++

2.1 Why so serious?

```
#include <stdio.h>

int main() {

    int n;
    long long m;
    char s[1000];

    scanf("%d%lld%s", &n, &m, &s);

    printf("%d %lld %s\n", n, s);

    return 0;
}
```

becomes

```
#include <bits/stdc++.h>
using namespace std;

int main() {

    int n;
    long long m;
    char s[1000];

    \\ a new data structure for strings which makes life easy
    string ss;

    cin >> n >> m >> s >> ss;

    cout << n << ' ' << m << ' ' << s << ' ' << ss << '\n';

    return 0;
}
```

Chapter 3

Assignment 2

3.1 How much do you know?

The aim is to gauge your level of expertise so that we can provide everyone with what they want without wasting anybody's time. Don't cheat or lie, it will defeat the purpose of the assignment.

3.1.1 Level 1

1. [Fabonacci](#)
2. [Watermelon](#)

3.1.2 Level 2

1. [Zeroes to the end](#) If you do it in $O(n^2)$ we won't mind, but leetcode might give a TLE.
2. [Count Primes](#)

3.1.3 Level 3

1. [Zeroes to the end](#) IMP: In a single linear $O(n)$ traversal
2. [Convert to base 2](#) (because that BE course was not a joke)

Adding the entry to the google sheet


If you solved 1 from L1; 1, 2 from L2 and none from L3, you write it as “**10 11 00**”.

Someone who solves all will write “**11 11 11**” and will color his box green.

Partial solvers color their box blue.

Those who tried but solved none will color their's red.

This will be followed for all the future assignments. This assignment needs to be done within next 4 days, and then we will have a little discussion if required.

Indenting the code is very important, I personally follow the K&R style but you can choose Google, LLVM or clang. Use your left pinky finger to hit the  key.