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## DS Lab 07

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**Q1:**

*Code:*

*Output:*

```
cd "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab  
b/07_lab/solution/"1_task  
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la  
• & g++ 1_task.cpp -o 1_task && "/media/mufeez/work1/FAST_K  
10 -> 20 -> 60 -> 50 -> 40 -> 30 -> 70 ->  
○ mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la
```

**Q2:**

*Code:*

*Output:*

```

cd "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/
b/07_lab/solution/"1_task
mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la
• & g++ 1_task.cpp -o 1_task && "/media/mufeez/work1/FAST_K
10 -> 20 -> 60 -> 50 -> 40 -> 30 -> 70 ->
• mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la
& g++ 2_task.cpp -o 2_task && "/media/mufeez/work1/FAST_K
2 -> 2 -> 4 -> 4 -> 4 -> 5 ->
2 -> 4 -> 5 ->
◦ mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_la

```

**Q3:**

*Code:*

*Output:*

```

• mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution$ cd "/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
& g++ 3_task.cpp -o 3_task && "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/"3_task

6 2 7 13 4 7 10 4 7 4
7 7 4 4 13 10
◦ mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution$ █

```

**Q4:**

*Code:*

*Output:*

```

& g++ 3_task.cpp -o 3_task && "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/"3_task

6 2 7 13 4 7 10 4 7 4
7 7 4 4 13 10
• mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution$ cd "/media/mufeez/work1/FAST_KHI_Semester_3/DS_l
& g++ 4_task.cpp -o 4_task && "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/"4_task
◦ 40 30 20 10 mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solutions$ █

```

**Q5:**

Code:

Output:

```
& g++ 4_task.cpp -o 4_task && "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/"4 task
• 40 30 20 10 mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution$ cd "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/" && g++ 5_task.cpp -o 5_task && "/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution/"5_task
• 5 4 3 1 mufeez@mine:/media/mufeez/work1/FAST_KHI_Semester_3/DS_lab/07_lab/solution$
```

**Q6:**

Code:

Output:

```
solution/" && g++ 5_task.cpp -o 5_task && "/
• 5 4 3 1 mufeez@mine:/media/mufeez/work1/
tion/" && g++ 6_task.cpp -o 6_task && "/"
• AB+CDE/*-F+mufeez@mine:/media/mufeez/wor
```

**Q7:**

Code:

Output:

```
tion/" && g++ 6_task.cpp -o 6_task && "/"
• AB+CDE/*-F+mufeez@mine:/media/mufeez/wor
olution/" && g++ 7_task.cpp -o 7_task &&
• 2 1 4 3 6 5 8 7 10 9 mufeez@mine:/media/
```

**Q8:**

Code:

Output:

```

• 2 1 4 3 6 5 8 7 10 9 mufeez@mine:/media/mufeez/work1/FAS
  b/07_lab/solution/" && g++ 8_task.cpp -o 8_task && "/med
  1 3 6 10 15 21

○ 0 1 1 2 3 5 8 13 21 34 55 89 144 mufeez@mine:/media/mufe

```

**Q9:**

*Code:*

*Output:*

```

/DS_lab/07_lab/solution/" && g++ 9_task.cpp -o
Prime: 5 7 11 13
Composite: 6 8 9 10 12 14 15 mufeez@mine:/media
n Debug 0 Live Share Run C++ solution g++

```