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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming in Modern C++ (course)

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W1_Programming_Qs_3

Due on 2023-02-09, 23:59 IST

Consider the program below.

- Fill in the blank at LINE-1 to include appropriate header file to utilize `abs()` function.
- Fill in the blank at LINE-2 to compute the length between two points `p1` and `p2` as $|p1.y - p2.y| + |p1.x - p2.x|$.

The program must satisfy the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	20 40 60 10	70	70	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-02-04, 17:50 IST

Your last recorded submission was :

```

1 #include <iostream>
2 #include <cmath> //LINE-1
3 using namespace std;
4 struct point{
5     int x, y;
6 };
7 double get_len(point p1, point p2){
8     return abs(p1.y - p2.y) + abs(p1.x - p2.x); //LINE-2
9 }
10 int main() {
11     int x1, y1, x2, y2;
12     cin >> x1 >> y1 >> x2 >> y2;
13     point p1, p2;
14     p1.x = x1;

```

Course outline

How does an
NPTEL
online
course
work? ()

Week 0 ()

Week 1 ()

- Lecture 01 :
Course
Overview
(unit?
unit=22&lesson=23)
- Lecture 02 : IO
& Loop (unit?
unit=22&lesson=24)
- Lecture 03 :
Arrays and
Strings (unit?
unit=22&lesson=25)
- Lecture 04 :
Sorting and
Searching



```

(unit?
unit=22&lesson=26)
15 p1.y = y1;
16 p2.x = x2;
17 p2.y = y2;
18 cout << get_len(p1, p2);
19 return 0;
20 }

```

☒ Lecture 05 :

Stack and
Common Data
Structures /
Containers

(unit?
unit=22&lesson=27)

☒ Tutorial 01 :

How to build a
C/C++
program?: Part
1: C

Preprocessor
(CPP) (unit?
unit=22&lesson=28)

☒ Week 1

Lecture
Material (unit?
unit=22&lesson=29)

☒ Quiz: Week 1 :

Assignment 1
(assessment?
name=164)

☒ W1_Programming_Qs_1

(/noc23_cs50/progassignment?
name=165)

☒ W1_Programming_Qs_2

(/noc23_cs50/progassignment?
name=166)

☒ W1_Programming_Qs_3

(/noc23_cs50/progassignment?
name=167)

☒ Week 1

Feedback
Form (unit?
unit=22&lesson=30)

☐ Assignment 1

Solution (unit?
unit=22&lesson=31)

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()



Week 6 ()
Week 7 ()
Week 8 ()
Download Videos ()
Books ()
Transcripts ()
Problem Solving Session ()

