X

(https://swayam.gov.in) (https://swayam.gov.in/nc_details/NPTEL)

navnathdeshmukh363@gmail.com

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

Register for Certification exam (https://examform.nptel.ac.in/2023_01/exam_form/dashboard)

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

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;
```

```
15      p1.y = y1;
16      p2.x = x2;
17      p2.y = y2;
18      cout << get_len(p1, p2);
19      return 0;
20  }
```