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



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Lecture 46 : C++11 and

W10_Programming_Qs-3

Due on 2023-04-06, 23:59 IST

Consider the following program (in C++11). Fill in the blanks as per the instructions given

below:

- Fill in the blank at LINE-1 with an appropriate template definition.
- Fill in the blank at LINE-2 to complete the header for function inner product.
 - Fill in the blank at LINE-3 to define the new type Tmp.

The program must satisfy the sample input and output.

Your last recorded submission was on 2023-04-04, 21:10 IST

Select the Language for this assignment. C++ >

```
for (int i=0; i < v1.size(); ++i) {
         sum += v1[i] * v2[i];
}
std::cout << sum << " ";
4
} // End of inner_product()</pre>
```



```
beyond:
                            int main(){
                          8
                                 float a;
  General
                         9
                                 int b;
  Features: Part
                         10
                                 double c;
                                 std::vector<float> fVec;
                        11
  1 (unit?
                        12
                                 std::vector<int> iVec;
  unit=112&lesson=113)
                        13
                                 std::vector<double> dVec;
                        14
                                 for(int i = 0; i < 3; i++) {</pre>
 Lecture 47:
                        15
                                     std::cin >> a;
  C++11 and
                        16
                                     fVec.push_back(a);
                        17
  beyond:
                        18
                                 for(int i = 0; i < 3; i++) {
  General
                                     std::cin >> b;
                        19
                                     iVec.push_back(b);
  Features: Part
                        20
                         21
  2 (unit?
                        22
                                 for(int i = 0; i < 3; i++) {
  unit=112&lesson=114)
                        23
                                     std::cin >> c;
                        24
                                     dVec.push_back(c);
Lecture 48 :
                        25
                                 inner_product(fVec, iVec);
                        26
  C++11 and
                                 inner_product(dVec, fVec);
                        27
  beyond:
                        28
                                 return 0;
  General
                        29 }
  Features: Part
  3 (unit?
  unit=112&lesson=115)
```

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will not be graded and you will not see your score after the deadline.

Save as <u>Draft</u> <u>Compile & Run</u> <u>Submit</u> <u>Reset</u>

C++11 and
beyond:
General
Features: Part
4: Rvalue and
Move/1 (unit?
unit=112&lesson=116)

Lecture 50:
C++11 and

Lecture 49 :

beyond: General Private Test cases used for Evaluation
Test Case 1

Features: Part
5: Rvalue and
Move/2 (unit?
unit=112&lesson=117)

Tutorial 10:
How to
optimize
C++11
programs

Semantics? (unit? unit=112&lesson=118)

using Rvalue and Move

Week 10 Lecture Material (unit? unit=112&lesson=119)

Quiz: Week 10 : Assignment 10



Status



(assessment? name=208) W10_Programming_Qs-(/noc23_cs50/progassignment? name=209) W10_Programming_Qs-(/noc23_cs50/progassignment? name=210) W10_Programming_Qs-(/noc23_cs50/progassignment? name=211) Week 10 Feedback Form (unit? unit=112&lesson=120) Week 11 () Download Videos () Books () Transcripts () **Problem**

> Solving Session ()

