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

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W9_Programming_Qs-1

Due on 2023-03-30, 23:59 IST

Consider the following program.

• Fill in the blank at LINE-1 to inherit from unary function.
• Fill in the blank at LINE-2 with appropriate initializer list.
• Fill in the blank at LINE-3 to override function call operator.

The program must satisfy the sample input and output.

Your last recorded submission was on 2023-03-25, 01:21 IST

Select the Language for this assignment. C++ ⌄

```
 1  #include<iostream>
 2  #include<algorithm>
 3  #include<vector>
 4
 5  struct Compute : std::unary_function<double, void> {     //LINE-1
 6      int count;
 7      double sum;
 8      Compute() : count(0),sum(0.0) {}     //LINE-2
 9    void operator() (double x) {count++, sum += x;}   //LINE-3
10  };
```

```
 0  int main(){
 1      std::vector<double> vd;
 2      int n;
 3      double d;
 4      std::cin >> n;
 5      for(int i = 0; i < n; i++){
 6          std::cin >> d;
 7          vd.push_back(d);
```

```
 8      }
 9      Compute com = for_each(vd.begin(), vd.end(), Compute());
10      std::cout << "avg = " << com.sum / com.count;
11      return 0;
12 }
```

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 Draft	Compile & Run	Submit	Reset

Private Test cases used for Evaluation	Status
Test Case 1	Passed

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(/noc23_cs50/progassignment?
name=207)

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