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



Register for Certification exam

Course sutling

W4_Programming_Qs-1

(https://examform.nptel.ac.in/2023 01/exam form/dashboard)

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

Consider the program below which defines a class Database. Complete the program with the following instructions.

- Fill in the blank at LINE-1 to complete the declaration of member variable ins.
- Fill in the blank at LINE-2 to specify the return type of createIns() function.
- Fill in the blank at LINE-3 to call the createIns () function with parameter i.

The program must satisfy the given test cases.

Jourse outline	
How does an NPTEL	
online course work?	()
Week 0 ()	
Week 1 ()	

Private Test cases used for evaluation	Input	
Test Case 1	14 20	

The due date for submitting this assignment has passed.

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Week 2 ()

Week 3 ()

Week 4 ()

- Lecture 16 : Static Members (unit? unit=52&lesson=53)
- Lecture 17 : Friend Function and friend Class (unit?unit=52&lesson=54)
- Lecture 18 : Overloading Operator for User-Defined Types: Part 1 (unit? unit=52&lesson=55)
- Lecture 19 : Overloading Operator for User-Defined Types: Part 2 (unit? unit=52&lesson=56)
- Lecture 20 : Namespace (unit?unit=52&lesson=57)
- Tutorial 04: How to build a C/C++ program?: Part 4: Static and Dynamic Library (unit? unit=52&lesson=58)
- Week 4 Lecture Material (unit?unit=52&lesson=59)
- Quiz: Week 4 : Assignment 4

1 out of 1 tests passed. You scored 100.0/100.

Assignment submitted on 2023-02-20, 18:24 IST

```
Your last recorded submission was:
```

```
1 #include<iostream>
 2 using namespace std;
   class Database{
       int id;
 6
       static Database *ins;
                                                      //LINE-1
       Database(int i) : id(i) {}
       public:
 9
           int getIns(){ return id; }
10
11
12
          static Database* createIns(int i){
                                                      //LINE-2
13
14
               if(!ins)
15
                   ins = new Database(i);
16
               return ins;
17
18
           ~Database();
19 };
20 Database *Database::ins = 0;
22 void fun(int i){
       Database *s = Database::createIns(i);;
23
       cout << s->getIns();
24
25
26 } // End of fun()
27
28
29 Database::~Database(){ cout << id; }
30 int main(){
       int a,b;
31
32
       cin >> a >> b;
       Database *s = Database::createIns(a);
33
34
       cout << s->getIns();
35
       fun(b);
36
       return 0;
37 }
```



(assessment?name=177)

- W4_Programming_Qs-1 (/noc23_cs50/progassignment? name=178)
- W4_Programming_Qs-2 (/noc23_cs50/progassignment? name=179)
- W4_Programming_Qs-3 (/noc23_cs50/progassignment? name=180)
- Week 4 Feedback Form (unit?unit=52&lesson=60)
- Assignment 4 Solution (unit?unit=52&lesson=61)

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Download Videos ()

Books ()

Transcripts ()

Problem Solving Session ()



