

Quiz

Quiz 5

Opens at: Feb 3, 2024, 00:00

Due on: Feb 8, 2024, 23:59

Total Score

6

Q1. Consider the following program having multi-level inheritance:

```
-----
\begin{verbatim}
Note:Includes all required header files

class A {
public:
    void print() { cout << "In A" << endl; }
};

class B : public A {
public:
    void print() { cout << "In B" << endl; }
};

class C: public B { };

int main(void)
{
    C c;
    c.print();
    return 0;
}
\end{verbatim}
-----
```

What is the outcome of the compilation and execution of the above program?

Score: 1 Neg. Score: 0

- Successful compilation, but no output
- In A
- Compilation error
- ✔ In B (Your answer)

Your Score: 1



Q2. What will be the output of the following program?

```
-----
\begin{verbatim}
Note: Add all necessary header files

class Base
{
public:
    virtual void show() { cout<< "In Base" << endl; }
};

class Derived: public Base
{
public:
    void show() { cout<< "In Derived" << endl; }
};

int main(void)
{
    Base *bp = new Derived;
    bp->show();
    Base &br = *bp;
    br.show();
    return 0;
}
\end{verbatim}
-----
```

Score: 1 Neg. Score: 0

- In Base
- In Derived
- In Derived
- In Base
- In Base
- In Base

✔ In Derived (Your answer)

In Derived

Your Score: 1

Q3. Which of the following catch statements is used to catch any exception?

Score: 1 Neg. Score: 0

✔ catch(...) (Your answer)

- catch()
- catch (all)
- catch (const char* msg)

Your Score: 1

Q4. Consider the following statements about C++ templates.
S1: Template is a type of compile time polymorphism.
S2: It allows the programmer to write one code for all data types
Which of the following is correct?



Score: 1 Neg. Score: 0

Only S2 is correct

Neither S1 nor S2 is correct

Only S1 is correct

✔ Both S1 and S2 are correct (Your answer)

Your Score: 1

Q5. Which of the following should not be present in a high-quality software routine/function?

Score: 1 Neg. Score: 0

An If statement with a for loop within it

✔ A parameter that is never used in the function (Your answer)

A while loop with an if statement within it

✔ A variable whose meaning cannot be interpreted easily (Your answer)

Your Score: 1

Q6. Suppose you want to ensure that the value of a variable balance should never be less than 0 at some location in your code written in C++. Which one of the following is the correct assert statement to be placed at that location?

Score: 1 Neg. Score: 0

assert (\$balance>0\$);

✔ assert (\$balance \ge 0\$); (Your answer)

assert (\$balance<0\$);

assert (\$0\$);

Your Score: 1

