

PPL QUIZ 1 (21-02-2022)

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Quiz

Polymorphism in C++ requires:

- ☐ Inheritance only
- ☐ Virtual functions only
- ☐ References only
- ☒ Inheritance, Virtual functions and references

Clear selection

Which of the following statements regarding inline functions and macros are incorrect?

- ☐ Inline functions do argument type checking, whereas macros do not.
- ☐ Macros are processed by the pre-processor, while inline functions are handled later in the compilation process.
- ☐ Return statements are not allowed in macros, but they are allowed in inline functions.
- ☒ Inline functions are not as prone to flaws and errors as macros are.
- ☐ None of these

Clear selection



By making both constructor and destructor private we can design a C++ class whose objects can only be created with the new operator. The application generates a compiler error if the user attempts to create an object directly.

- ☒ True
- ☐ False

Clear selection

Which of the following statement concerning C++ references is FALSE?

- ☒ References cannot refer to constant value
- ☐ Once a reference is created, it cannot be later made to reference another object; it cannot be reset.
- ☐ Reference must be initialized when declared
- ☐ References cannot be NULL

Clear selection



Give the correct output of the following program.

```
#include<iostream>
using namespace std;
class Top
{
private:
int x;
public:
Top(int x = 0) { this->x = x; }
void change(Top *t) { this = t; }
void print() { cout << "x = " << x << endl; }
};

int main()
{
Top obj(5);
Top *ptr = new Top (10);
obj.change(ptr);
obj.print();
return 0;
}
```

- ☒ Compiler Error
- ☐ x = 5
- ☐ Runtime Error
- ☐ x = 10

Clear selection



How to create a dynamic array of pointers (to integers) of size 10 using new in C++?

- ☐ `int *arr = new int *[10];`
- ☒ `int **arr = new int *[10];`
- ☐ `int *arr = new int [10];`
- ☐ Not Possible

Clear selection



Output of following program?

```
using namespace std;

class Base
{
public:
    virtual string print() const
    {
        return "This is Base class";
    }
};

class Derived : public Base
{
public:
    virtual string print() const
    {
        return "This is Derived class";
    }
};

void describe(Base p)
{
    cout << p.print() << endl;
}

int main()
{
    Base b;
    Derived d;
    describe(b);
    describe(d);
    return 0;
}
```

- ☐ This is Derived class This is Base class
- ☐ This is Base class This is Derived class
- ☐ Compilation Error
- ☒ This is Base class This is Base class



[Clear selection](#)

Which of the following is true about templates.

- ☒ Template is a feature of C++ that allows us to write one code for different data types.
- ☒ We can write one function that can be used for all data types including user defined types. Like sort(), max(), min(), ..etc.
- ☒ We can write one class or struct that can be used for all data types including user defined types. Like Linked List, Stack, Queue ..etc.
- ☒ Template is not an example of compile time polymorphism.

Which of the following is not correct (in C++) ?

- ☐ Class templates and function templates are instantiated in the same way
- ☒ Class templates differ from function templates in the way they are initiated
- ☒ Class template is initiated by defining an object using the template argument
- ☒ Class templates are generally used for storage classes

Pure virtual functions -> which of the following statements is true?

- ☐ None
- ☒ If a class has a pure virtual function, then the class becomes abstract class and an instance of this class cannot be created.
- ☒ Pure virtual function is implemented in derived classes
- ☐ pure virtual return_type func();
- ☐ Pure keyword should be used to declare a pure virtual function

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