PPL QUIZ 1 (21-02-2022)

u19cs012@coed.svnit.ac.in Switch account

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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	
O False	
	Clear selection

Which of the following statement concerning C++ references is FAL	_SE?
References cannot refer to constant value	
Once a reference is created, it cannot be later made to reference anothe cannot be reset.	er object; it
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; }</pre>
};
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

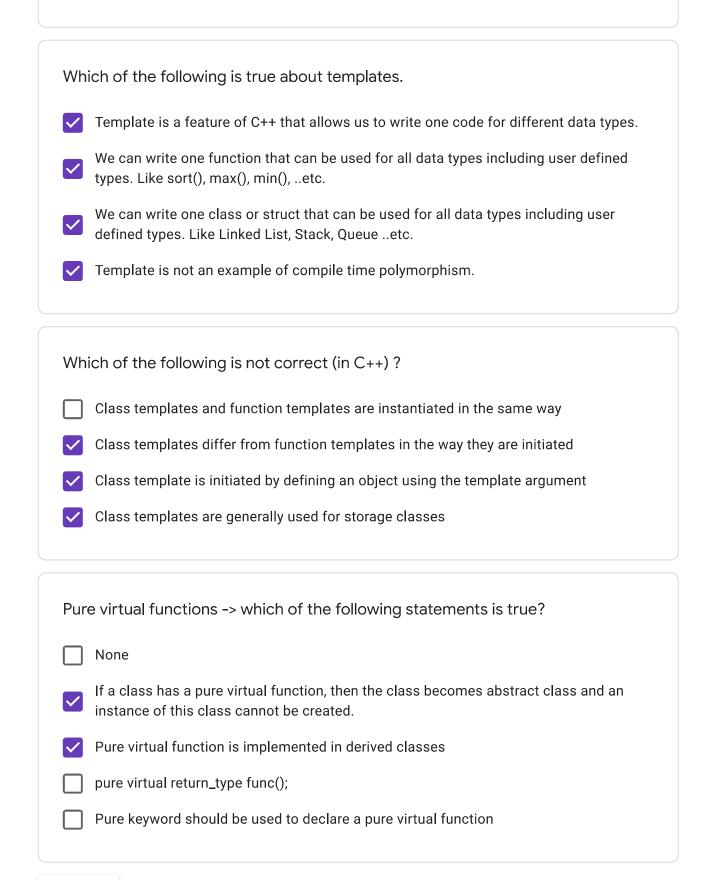
How to create a dynamic array of pointers (to integers) of size 10 C++?) using new in
int *arr = new int *[10];	
int **arr = new int *[10];	
int *arr = new int [10];	
O Not Possible	
	Clear selection

!

```
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;</pre>
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
```

https://docs.google.com/forms/d/e/1FAlpQLSdL1HRkoghzfBp6k91_ogH9setvw54_9J09puYnzCKZxQBfTw/formResponse

Clear selection



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