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CPA - C++ Certified Associate Programmer (CPA-21-02)

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QUESTION: 213

What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
class A {
public :
void print() {
cout << "A ";
}
};
class B {
public :
void print() {
cout << "B ";
}
};
int main() {
B sc[2];
B *bc = (B*)sc;
for (int i=0; i<2;i++)
(bc++)->print();
return 0;
}
```

- A. It prints: A A
- B. It prints: B B
- C. It prints: A B
- D. It prints: B A

Answer: B

QUESTION: 214

What happens when you attempt to compile and run the following code?

```
#include <iostream>
#include <string>
using namespace std;
class complex{
double re;
double im;
public:
complex() : re(1),im(0.4) {}
bool operator==(complex &t);
};
```

```

bool complex::operator == (complex &t){
if((this?>re == t.re) && (this?>im == t.im))
return true;
else
return false;
}
int main(){
complex c1,c2;
if (c1==c2)
cout << "OK";
else {
cout << "ERROR";
}
}

```

- A. It prints: OK
- B. It prints: ERROR
- C. Compilation error
- D. Runtime error.

Answer: A

QUESTION: 215

What happens when you attempt to compile and run the following code?

```

#include <iostream>
using namespace std;
int main()
{
int i = 4;
while(i >= 0) {
cout<<i;
i??.
}
return 0;
}

```

- A. It prints:"43210"
- B. It prints:"3210"
- C. It prints: "3210?1"
- D. None of these

Answer: A

QUESTION: 216

What will happen when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
#define A 1
int main()
{
    #if A
    cout<<"Hello";
    #endif
    cout<<"world";
    return 0;
}
```

- A. It will print: Helloworld
- B. It will print: Hello
- C. It will print: world
- D. It will print: 0

Answer: A

QUESTION: 217

What will be the output of the program?

```
#include <iostream>
#include <string>
using namespace std;
int fun(int);
int main()
{
    float k=3;
    k = fun(k);
    cout<<k;
    return 0;
}
int fun(int i)
{
    i++;
    return i;
}
```

- A. 3
- B. 5
- C. 4
- D. 5

Answer: C

QUESTION: 218

What happens when you attempt to compile and run the following code?

```
#include <iostream>
using namespace std;
int main()
{
    const char *s;
    char str[] = "Hello";
    s = str;
    while(*s) {
        cout << *s++;
    }
    return 0;
}
```

- A. It prints: el
- B. It prints: Hello
- C. It prints: H
- D. It prints: o

Answer: B

QUESTION: 219

What happens when you attempt to compile and run the following code?

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    string s1[] = {"How" , "to" };
    s1[0].swap(s1[1]);
    for (int i=0; i<2; i++) {
        cout << s1[i];
    }
}
```

```
}  
return( 0 );  
}
```

- A. It prints: Hoto
- B. It prints: toHow
- C. It prints: Ht
- D. It prints: to

Answer: B

QUESTION: 220

What will variable "y" be in class B?

```
class A {  
    int x;  
    protected:  
    int y;  
    public:  
    int age;  
};  
  
class B : public A {  
    string name;  
    public:  
    void Print() {  
        cout << name << age;  
    }  
};
```

- A. public
- B. private
- C. protected
- D. None of these

Answer: C

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