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Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	110
Topic 2, Volume B	118
Total	228

QUESTION NO: 1

Which keywords can be used to define template type parameters? Choose all possible answers:

- A. class
- B. typedef
- C. typename
- D. static
- E. volatile

ANSWER: A C

QUESTION NO: 2

Which stack initialization (line numbers) are correct? Choose all that apply.

```
#include
```

```
#include
```

```
#include
```

```
#include #include
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
deque mydeck; list mylist; vector myvector; stack first;// Line I stack second(mydeck);// Line II stack third(second);// Line III  
stack > fourth(mylist);// Line IV stack > fifth(myvector);// Line V return 0; }
```

- A. line I
- B. line II
- C. line III
- D. line IV
- E. line V

ANSWER: A B C D E

QUESTION NO: 3

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

```
#include
#include
#include
#include #include using namespace std; int main() {
int t[] = { 3, 4, 2, 1, 0, 3, 4, 1, 2, 0 }; vector v(t, t + 10); multimap m;
for (vector::iterator i = v.begin(); i != v.end(); i++) { stringstream s;s << *i << *i;
m.insert(pair(*i, s.str()));
}
pair<>::iterator, multimap::iterator> range; range = m.equal_range(2);
for (multimap::iterator i = range.first; i != range.second; i++) { cout << i?>first << " ";
} return 0;
}
```

The output will be:

- A. 2 2
- B. 1 2
- C. 1 3
- D. 2
- E. 0 2

ANSWER: A

QUESTION NO: 4

Which changes introduced independently will allow the code to compile and display “one” “eight” “nine” “ten”? Choose all that apply.

```
#include
#include #include using namespace std;
class A { int a; public:
A(int a):a(a){}
```

```
int getA() const { return a;}

/* Insert Code Here 1 */

};

/* Insert Code Here 2 */ int main(){

int t[] ={ 3, 4, 2, 1, 6, 5, 7, 9, 8, 10 };

string s[] = {"three", "four", "two", "one", "six","five", "seven", "nine","eight","ten"}; multimap m; /* Replace Code Here 3 */
for(int i=0; i<10; i++) {

m.insert(pair(A(t[i]),s[i]));

}

m.erase(m.lower_bound(2),m.upper_bound(7));

multimap::iterator i=m.begin();/* Replace Code Here 4 */ for( ; i!= m.end(); i++) {

cout<<second<<" ";

}

cout<<<>

return 0; }
```

- A. operator int() const { return a;} inserted at Place 1
- B. bool operator < (const A & b) const { return a
- C. bool operator < (const A & b) const { return b.a
- D. struct R { bool operator ()(const A & a, const A & b) { return a.getA() replacing line marked 3 with multimap m; replacong line marked 4 with multimap::iterator i=m.begin();

ANSWER: A B D

QUESTION NO: 5

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

```
#include

#include #include using namespace std;

int main(){

int t[] ={ 1, 1, 2, 2, 3, 3, 4, 4, 5, 5 }; listv(t, t+10); set s1(v.begin(),v.end()); if (s1.count(3) == 2) {

s1.erase(3);

}
```

```
for(set::iterator i=s1.begin();i!= s1.end(); i++) { cout<<*i<<" ";  
} return 0; }
```

- A. program outputs: 1 2 3 4 5
- B. program outputs: 1 2 4 5
- C. program outputs: 1 1 2 2 3 4 4 5 5
- D. program outputs: 1 1 2 3 3 4 4 5 5
- E. compilation error

ANSWER: A

QUESTION NO: 6

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

```
#include  
#include  
#include #include using namespace std; templatestruct Out { ostream & out;  
Out(ostream & o): out(o){  
void operator() (const T & val ) { out<  
int t[]={8, 10, 5, 1, 4, 6, 2, 7, 9, 3}; deque d1(t, t+10); set s1(t,t+10);  
cout<  
<<>  
return 0; }
```

Choose all possible outputs (all that apply):

- A. 1 0
- B. 1 1
- C. true true
- D. false false
- E. compilation error

ANSWER: A B

QUESTION NO: 7

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

```
#include
#include
#include #include
using namespace std;
void myfunction(int i) {
cout << " " << i;
}
int main() {
int t[] = { 10, 5, 9, 6, 2, 4, 7, 8, 3, 1 }; deque d1(t, t+10); vector v1(d1.rbegin(), d1.rend()); sort(d1.begin(), d1.end());
swap_ranges(v1.begin(), v1.end(), d1.begin()); for_each(v1.begin(), v1.end(), myfunction); for_each(d1.begin(), d1.end(),
myfunction); return 0; }
```

Program outputs:

- A. 10 9 8 7 6 5 4 3 2 1 1 2 3 4 5 6 7 8 9 10
- B. compilation error
- C. 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10
- D. 1 2 3 4 5 6 7 8 9 10 1 3 8 7 4 2 6 9 5 10
- E. 1 3 8 7 4 2 6 9 5 10 1 2 3 4 5 6 7 8 9 10

ANSWER: D

QUESTION NO: 8

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

```
#include
#include
using namespace std;
int main ()
{
float f = 10.126; cout.unsetf(ios::floatfield);
```

```
cout<<><><><>
```

What will be a mantissa part of the numbers displayed:

- A. 1.0126 1.013
- B. 1.012600 10.013
- C. 10.01260 10.013
- D. 1.012600 1.013
- E. 1.0126 1.01

ANSWER: D

QUESTION NO: 9

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

```
#include
```

```
#include #include using namespace std; class B { int val; public:
```

```
B(int v=0):val(v){} int getV() const {return val;} operator int () const { return val; };
```

```
ostream & operator <<(ostream & out, const B & v) { out<struct Out { ostream & out;
```

```
Out(ostream & o): out(o){}
```

```
void operator() (const T & val ) { out<
```

```
B operator()(B & a, B & b) { return a+b; } }; int main() {
```

```
B t[]={1,2,3,4,5,6,7,8,9,10}; vector v1(t, t+10); vector v2(10);
```

```
transform(v1.begin(), v1.end(), v2.begin(), bind2nd(Add(),1)); for_each(v2.rbegin(), v2.rend(), Out(cout));cout<
```

Program outputs:

- A. 1 2 3 4 5 6 7 8 9 10
- B. 2 3 4 5 6 7 8 9 10 11
- C. 10 9 8 7 6 5 4 3 2 1
- D. 11 10 9 8 7 6 5 4 3 2
- E. compilation error

ANSWER: E

QUESTION NO: 10

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

```
#include
#include #include
using namespace std; int main ()
{
vectorv1; deque d1;
for(int i=0; i<5; i++)
{
v1.push_back(i);v1.push_front(i);
d1.push_back(i);d1.push_front(i);
}
for(int i=0; i
{
cout<
}
cout<
}
```

What will be its output:

- A. 4 4 3 3 2 2 1 1 0 0 0 0 1 1 2 2 3 3 4 4
- B. runtime exception
- C. compilation error due to line 11
- D. compilation error due to line 12

ANSWER: C

QUESTION NO: 11

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

```
#include
#include
```

```
#include #include using namespace std; templatestruct Out { ostream & out; Out(ostream & o): out(o){}
void operator() (const T & val ) { out<
int start;
Sequence(int start):start(start){}
int operator()() { return start++; } };
int main() { vector v1(10);
generate_n(v1.begin(), 10, Sequence(1)); random_shuffle(v1.rbegin(), v1.rend()); sort(v1.begin(), v1.end(), great());
for_each(v1.begin(), v1.end(), Out(cout));cout<
```

Program outputs:

- A. 8 10 5 1 4 6 2 7 9 3
- B. 1 2 3 4 5 6 7 8 9 10
- C. compilation error
- D. 10 9 8 7 6 5 4 3 2 1

ANSWER: C

QUESTION NO: 12

Which changes introduced independently will allow the code to compile and display 0 0 1 1 8 8 9 9 (choose all that apply)?

```
#include
#include #include using namespace std;
class A { int a; public:
A(int a):a(a){}
int getA() const { return a;}
/* Insert Code Here 1 */
};
/* Insert Code Here 2*/
int main(){
A t[] ={ 3, 4, 2, 1, 6, 5, 7, 9, 8, 0 }; sets(t, t+10);/* Replace Code Here 3 */
multiset s1(s.begin(),s.end());/* Replace Code Here 4 */ s1.insert(s.begin(),s.end());
```

```
s1.erase(s1.lower_bound(2),s1.upper_bound(7)); multiset::iterator i=s1.begin();/* Replace Code Here 5 */ for( ;i!= s1.end();  
i++)  
{  
cout<<getA()<<" ";  
}  
cout<<<>  
return 0; }
```

A. operator int() const { return a;} inserted at Place 1

B. bool operator < (const A & b) const { return a

C. bool operator < (const A & b) const { return b.a

D. struct R { bool operator()(const A & a, const A & b) { return a.getA()

replacing line marked 3 with sets(t, t+10);

replacing line marked 4 with multiset s1(s.begin(),s.end()); replacing line marked 5 with multiset::iterator i=s1.begin();

ANSWER: A B D

QUESTION NO: 13

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

```
#include
```

```
#include
```

```
#include #include using namespace std;
```

```
bool identical(int a, int b) {
```

```
return b == 2*a?true:false;
```

```
}
```

```
int main() {
```

```
int t[] = {1,2,3,2,3,5,1,2,7,3,2,1,10, 4,4,5}; int u[] = {2,4,6,4,6,10,2,4,14,6,4,2,20,8,8,5}; vector v1(t, t + 15);
```

```
deque d1(u, u + 15);
```

```
pair<>::iterator, vector::iterator > result; result = mismatch(d1.begin(), d1.end(), v1.begin(), identical); //Line I if (result.first ==  
d1.end() && result.second == v1.end()) { //Line II cout<<"Identical\n";
```

```
} else {
```

```
cout<<"Not identical\n";
```

```
} return 0; }
```

Program outputs:

- A. Identical
- B. Not identical
- C. compilation error at line marked I
- D. compilation error at line marked II

ANSWER: B

QUESTION NO: 14

What happens when you attempt to compile and run the following code? Choose all possible answers.

```
#include
using namespace std;
class C {
public: int _c; C():_c(0){}
C(int c) { _c = c;}
C operator+=(C & b) { C tmp; tmp._c = _c+b._c; return tmp;
};
ostream & operator<<(ostream & c, const C & v) { c<
template class A { T _v; public:
A() {}
A(T v): _v(v){} T getV() { return _v; }
void add(T & a) { _v+=a; }
};
int main()
{
A b(2); A a (5); a.add(C());
cout << a.getV() <
```

- A. program will display:5
- B. program will not compile
- C. program will compile

D. program will cause runtime exception

ANSWER: A C

QUESTION NO: 15

Which pieces of code inserted independently into places marked 1 and 2 will cause the program to compile and display: 0 1 2 3 4 5 6 7 8 9? Choose all that apply.

```
#include <string> using namespace std; class A { int a; public: A(int a){ this->a=a;}
```

```
//insert code here 1
```

```
};
```

```
//insert code here 2
```

```
template void print(T start, T end) { while (start != end) {
```

```
std::cout << *start << " "; start++;
```

```
}
```

```
}
```

```
int main() {
```

```
A t1[] = { 1, 7, 8, 4, 5 }; list l1(t1, t1 + 5); A t2[] = { 3, 2, 6, 9, 0 }; list l2(t2, t2 + 5); l1.sort(); l2.sort(); l1.merge(l2); print(l1.begin(), l1.end());
```

```
print(l2.begin(), l2.end()); cout<
```

A. place 1: operator int() { return a; }

B. place 1: operator int() { return a; } bool operator < (const A & b) { return this->a < b.a; }

C. place 1: bool operator < (const A & b) { return this->a < b.a; }

D. place 1: bool operator < (const A & b) { return this->a < b.a; } friend ostream & operator <<(ostream & c, const A & a); place 2: ostream & operator <<(ostream & c, const A & a) { c<

E. place 1: bool operator < (const A & b) { return this->a < b.a; } place 2: ostream & operator <<(ostream & c, const A & a) { c<

ANSWER: A B D