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Question 1

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
void print(int v) { cout
```

```
struct Sequence {
```

```
int start;
```

```
Sequence(int start):start(start){}
```

```
int operator>() {
```

```
return 10*(1+(start++ %3));
```

```
}
```

```
};  
  
int main() {  
  
vector v1(10);  
  
generate_n(v1.begin(), 10, Sequence(1));  
  
remove(v1.begin(), v1.end(), 10);  
  
for_each(v1.begin(), v1.end(), print);cout  
  
return 0;  
  
}
```

Program outputs:

Options:

- A- 20 30 10 20 30 10 20 30 10 20
- B- 20 30 20 30 20 30 20
- C- 20 30 20 30 20 30 20 30 10 20
- D- compilation error

Answer:

C

Question 2

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main() {
```

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

```
vector v1(t, t + 15);
```

```
set s1(t, t + 15);
```

```
pair::iterator, vector::iterator > resultSet = equal(s1.begin(), s1.end(), v1.begin());
```

```
cout
```

```
return 0;
```

```
}
```

Program outputs:

Options:

A- 2 4

B- 4 2

C- 0 5

D- compilation error

Answer:

D

Question 3

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
void myfunction(int i) {
```

```
    cout
```

```
    }
```

```
int main() {
```

```
    int t[] = { 1, 5, 2, 5, 2, 4, 4, 3, 3, 1 };
```

```
    vector v1(t, t+10);
```

```
    set s1(t, t+10);
```

```
    replace(v1.begin(), v1.end(), 1, 10);
```

```
replace(s1.begin(), s1.end(), 1, 10);  
  
for_each(v1.begin(), v1.end(), myfunction);  
  
return 0;  
  
}
```

Program outputs:

Options:

A- 10 5 2 5 2 4 4 3 3 1

B- 1 10 2 5 2 4 4 3 3 10

C- compilation error

D- 10 5 2 5 2 4 4 3 3 10

Answer:

C

Question 4

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
template void print(T start, T end) {
```

```
while (start != end) {
```

```
std::cout
```

```
}
```

```
}
```

```
int main(){
```

```
vectorv;
```

```
set s;
```

```
for(int i=10; i>0; i??) {
```



```
v.push_back(i);  
s.push_back(i);  
}  
print(v.begin(), v.end()); print(s.begin(), s.end());cout  
return 0;  
}
```

The output will be:

Options:

- A- 10 9 8 7 6 5 4 3 2 1 1 2 3 4 5 6 7 8 9 10
- B- 10 9 8 7 6 5 4 3 2 1 10 9 8 7 6 5 4 3 2 1
- C- 10 9 8 7 6 5 4 3 2 1 and unpredictable sequence of number range 1 to 10
- D- compilation error

Answer:

D

Question 5

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main ()
```

```
{
```

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

```
vectorv1(t, t+10);
```

```
dequed1(t, t+10);
```

```
vector::iterator it1 = v1.begin();
```

```
deque::iterator it2 = d1.begin();
```

```
d1.erase(it2+5);  
  
it2 = d1.begin();  
  
cout  
  
v1.erase(it1+5);  
  
it1 = v1.begin();  
  
cout  
  
}
```

Options:

- A- program outputs: 7 7
- B- program outputs: 6 6
- C- compilation error
- D- result is unpredictable

Answer:

A

Question 6

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main() {
```

```
int t[] = { 1, 1, 2, 2, 3, 3, 4, 4, 5, 5 };
```

```
string s[] = { "one", "one", "two", "two", "three", "three", "four", "four", "five", "five"};
```

```
multimap m;
```

```
for (int i = 0; i
```

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

```
}
```

```
if (m.count(3) == 2) {
```

```
m.erase(3);  
  
}  
  
for (multimap::iterator i = m.begin(); i != m.end(); i++) {  
  
    cout first  
  
}  
  
return 0;  
  
}
```

Options:

- 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 2 4 4 5 5
- E- program outputs: one two three four five

Answer:

D

Question 7

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
templateclass B { T val;
```

```
public:
```

```
B(T v):val(v){}
```

```
T getV() const {return val;} };
```

```
templateostream & operator & v) { out
out;}

templatestruct Out {

ostream & out;

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

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

string tolower(const string & s) {

string tmp(s);

for(unsigned i = 0; i

tmp[i] = tolower(tmp[i]); }

return tmp; }

bool Less(const B &a, const B &b) {

return tolower(a.getV())

int main() {

string t[]={"aaa","bbb","Aaa", "Bbb","aAa","bBb","aaA","bbB"};
```

```
vector > v1; v1.assign(t, t+8);  
  
stable_sort(v1.begin(), v1.end(), Less);  
  
for_each(v1.begin(), v1.end(), Out >(cout));cout  
  
return 0;  
  
}
```

Program outputs:

Options:

- A- Aaa aaa aAa aaA bbb Bbb bBb bbB
- B- Aaa aaa aAa aaA bbb Bbb bbB bBb
- C- aaa Aaa aAa aaA bbb Bbb bBb bbB
- D- the exact output is impossible to determine

Answer:

C

Question 8

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main(){
```

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

```
string first[] = {"three", "four", "two", "one", "six", "five", "seven", "nine", "eight", "ten"};
```

```
multimap m;
```

```
for(int i=0; i
```

```
m.insert(pair(second[i],first[i]));
```

```
}
```

```
if (m[11] == "eleven") {  
  
    cout  
  
}  
  
for(multimap::iterator i=m.begin();i!= m.end(); i++) {  
  
    coutsecond  
  
}  
  
    cout  
  
    return 0;  
  
}
```

Options:

- A- program outputs: one two three four five six seven eight nine ten 11
- B- program outputs: one two three four five six seven eight nine ten 10
- C- program outputs: one two three four five six seven eight nine ten 10
- D- program outputs: eleven one two three four five six seven eight nine ten 10
- E- compilation error

Answer:

E

Question 9

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main ()
```

```
{
```

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

```
vectorv1(t, t+10);
```

```
dequed1(t, t+10);
```

```
d1.empty();  
v1.empty();  
if (v1.isempty())  
{  
cout  
}  
else  
{  
cout  
}  
cout  
return 0;  
}
```

Options:

A- program outputs: I am empty 0 0

B- program outputs: I am not empty 0 0

C- compilation error

D- program outputs: I am not empty 10 10

Answer:

C

Question 10

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;

int main()
{
    deque mydeck;list mylist; vector myvector;

    queue first; queue second(mydeck);

    queue third(second); queue > fourth(mylist);

    fourth.push(10);fourth.push(11);fourth.push(12);

    queue > fifth(myvector);

    fifth.push(10);fifth.push(11);fifth.push(12); // Line I

    while(!fifth.empty())

    {

    cout

    fifth.pop(); // Line III

    }

    while (!fourth.empty())
```

```
{  
cout  
fourth.pop(); // Line IV  
}  
return 0;  
}
```

Options:

- A- program outputs: 10 11 12 10 11 12
- B- compilation error in line I
- C- compilation error in line II
- D- compilation error in line III
- E- compilation error in line IV

Answer:

D

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