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Question 1

Question Type: MultipleChoice

Which lines of the code below contain proper instantiation of queue objects?

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
deque mydeck;
```

```
list mylist;
```

```
vector myvector;
```

```
queue first; // line I  
queue second(mydeck);// line II  
queue third(second);// line III  
queue fourth(mylist);// line IV  
queue fifth(myvector);// line V  
return 0;  
}
```

Options:

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

Answer:

A, B, C

Question 2

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
class A {
```

```
int a;
```

```
public:
```

```
A(int a) : a(a) {}
```

```
int getA() const { return a; } void setA(int a) { this->a = a; }
```

```
bool operator==(const A & b) const { return a == b.a; }
```

```
};  
  
bool compare(const A & a, const A & b) { return a == b; }  
  
int main () {  
  
int t[] = {1,2,3,3,5,1,2,4,4,5};  
  
vector v (t,t+10);  
  
vector::iterator it = v.begin();  
  
while ( (it = adjacent_find (it, v.end(), compare)) != v.end()) {  
  
cout  
  
}  
  
cout  
  
return 0;  
  
}
```

Options:

A- program outputs: 2 3

- B- program outputs: 2 7
- C- program outputs: 3 8
- D- compilation error
- E- program will run forever

Answer:

B

Question 3

Question Type: MultipleChoice

What will happen when you attempt to compile and run the code below, assuming that file test.out do not exist before the program execution?

```
#include
```

```
#include
```

```
#include
```

```
#include
```

```
#include

using namespace std;

templatestruct Out {

ostream & out;

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

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

int main (){

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

fstream f("test.out");

list l(t, t+10);

for_each(l.begin(), l.end(), Out(f));

f.close();

return 0;

}
```

Options:

- A- file test.out will be created and opened for writing
- B- file test.out will be created and opened for reading
- C- no file will be created nor opened
- D- file test.out will contain sequence 1 2 3 4 5 6 7 8 9 10
- E- compilation error

Answer:

C

Question 4

Question Type: MultipleChoice

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; } };

templatestruct Out {

ostream & out;

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

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

struct Add {

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

int main() {

int 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(), bind1st(Add(),1));  
  
for_each(v2.rbegin(), v2.rend(), Out(cout));cout  
  
return 0;  
  
}
```

Program outputs:

Options:

- 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 5

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
using namespace std;
```

```
class A
```

```
{
```

```
int a,b;
```

```
public:
```

```
A(const A & c) { a = c.a; }
```

```
A():a(0),b(0){}
```

```
void setA(int a) {this->a = a;} void setB(int b) {this->b = b;}
```

```
int getA() {return a;} int getB() {return b;}
```

```
};  
  
int main ()  
{  
    vector v;  
  
    A a;  
  
    a.setA(10); a.setB(11);  
  
    v.push_back(a);  
  
    cout  
  
    return 0;  
}
```

Options:

- A- program outputs 10 11
- B- the result is unpredictable
- C- program outputs 10 0
- D- program outputs 11 0

E- compilation error

Answer:

B

Question 6

Question Type: MultipleChoice

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

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
struct Compare {
```

```
bool operator()(int a) {
```

```
if (a >5) return true;
```

```
return false;

}

};

int main () {

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

vector v (t,t+15);

int number = count(v.begin(), v.end(), Compare());

cout

return 0;

}
```

Program outputs:

Options:

A- 4

B- 3

C- 2

D- 0

E- compilation error

Answer:

E

Question 7

Question Type: MultipleChoice

What will happen when you attempt to compile and run the code below, assuming that you enter the following sequence: 1 2 3?

```
#include
```

```
#include
```

```
#include
```

```
using namespace std;
```

```
int main ()
```

```
{
```

```
string s;  
  
getline(cin, s);  
  
stringstream input(s);  
  
stringstream output;  
  
for( ; !input.fail() ; )  
  
{  
  
int i;  
  
input>>i;  
  
output  
  
}  
  
cout  
  
return 0;  
  
}
```

Program will output:

Options:

A- 1 2 3

B- 1 2 3 3

C- 0x1 0x2 0x3

D- 0x1 0x2 0x3 0x3

E- program runs forever without output

Answer:

B

Question 8

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 second[] = { 3, 4, 2, 1, 6, 5, 7, 9, 8, 0 };

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

map m;

for(int i=0; i

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

}

m[0]="ten";

m.insert(pair(1,"eleven"));

for(map::iterator i=m.begin();i!= m.end(); i++) {

cout<<second

}

return 0;
```

```
}
```

Options:

- A- program outputs: zero one two three four five six seven eight nine
- B- program outputs: ten one two three four five six seven eight nine
- C- program outputs: zero eleven two three four five six seven eight nine
- D- program outputs: ten eleven two three four five six seven eight nine
- E- program outputs: 0 1 2 3 4 5 6 7 8 9

Answer:

B

Question 9

Question Type: MultipleChoice

What will happen when you attempt to compile and run the code below, assuming you enter the following sequence: 1 2 3?

```
#include
```

```
using namespace std;
```

```
int main ()
```

```
{
```

```
int a,b,c;
```

```
cin>>a>>b>>c;
```

```
cout
```

```
return 0;
```

```
}
```

Program will output:

Options:

A- 123

B- 1 2 3

C- 321

D- compilation error

E- the result is unspecified

Answer:

A

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;
```

```
class compare {
```

```
bool reverse;
```

```
public:
```

```
compare(bool revparam = false){ reverse = revparam;}

bool operator()(int lhs, int rhs) const{

if (reverse)return (lhs > rhs);

elsereturn (lhs

}

};

int main(){

int myints[] = { 3, 4, 2, 1, 6, 5, 7, 9, 8, 0 };

priority_queue > first(myints, myints + 10);

priority_queue, compare> second(myints, myints + 10,

compare(false));

while (first.size() > 0){

cout

}

while (second.size() > 0) {
```

```
cout  
  
}  
  
return 0;  
  
}
```

Options:

- A- compilation error
- B- program outputs: 9 8 7 6 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1 0
- C- program outputs: 9 8 7 6 5 4 3 2 1 0 0 1 2 3 4 5 6 7 8 9
- D- program outputs: 3 4 2 1 6 5 7 9 8 0 3 4 2 1 6 5 7 9 8 0

Answer:

B

Question 11

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()
```

```
{
```

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

```
deque mydeck(t, t+10); list mylist(t, t+10);
```

```
queue first;
```

```
queue second(mydeck);
```

```
queue third(second);
```

```
queue > fourth(mylist);
```



```
mylist.clear();third.clear();
```

```
cout
```

```
cout
```

```
return 0;
```

```
}
```

Options:

A- program outputs: 10 0

10 0

B- program outputs: 0 0

0 0

C- program outputs: 10 10

10 10

D- program outputs: 10 0

0 10

E- compilation error

Answer:

E

Question 12

Question Type: MultipleChoice

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

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

```
ostream & operator
```

```
templatestruct Out {
```

```
ostream & out;

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

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

int main() {

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

deque d1(t, t+10);

deque::iterator it = lower_bound(d1.begin(), d1.end(), 4);

for_each(it, d1.end(), Out(cout));cout

return 0;

}
```

Program outputs:

Options:

A- 8 10 5 1 4 6 2 7 9 3

B- 4 5 6 7 8 9 10

C- 1 2 3 4 5 6 7 8 9 10

D- compilation error

E- 1 2 3 4

Answer:

D

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