Started on	Tuesday, 28 March 2023, 7:48 PM
State	Finished
Completed on	Tuesday, 28 March 2023, 7:50 PM
Time taken	1 min 25 secs
Grade	**90.00** out of 90.00 (**100**%)

Question **1**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```cpp
struct B {
  B() { std::cout << "B1"; }
  B(int n) { std:: cout << "B2" << n; }
};

struct D : public B {
  D() { std::cout << "D1"; }
  D(int n) {
    b = B(-n);
    std::cout << "D2"<< n;
  }
private:
 B b;
};

int main() {
  D d(4);
}
```

Answer: B1B1B2-4D24   ✔

The correct answer is: B1B1B2-4D24

Question **2**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```cpp
struct B {
  B() { std::cout << "B1"; }
  B(int n) { std:: cout << "B2" << n; }
};

struct D : public B {
  D() { std::cout << "D1"; }
  D(int n) : B(n) {
    b = B(-n);
    std::cout << "D2"<< n;
  }
private:
 B b;
};

int main() {
  D d(3);
}
```

Answer: B23B1B2-3D23   ✔

The correct answer is: B23B1B2-3D23

Question **3**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```cpp
struct B {
  B() { std::cout << "B1"; }
  B(int n) { std:: cout << "B2" << n; }
  ~B() { std::cout << "B3"; }
};

struct D : public B {
  D() { std::cout << "D1"; }
  D(int n) : B(n), b(-n) {
    std::cout << "D2"<< n;
  }
  ~D() { std::cout << "D3"; }
private:
 B b;
};

int main() {
  D *pd = new D(3);
  delete pd;
}
```

Answer: B23B2-3D23D3B3B3   ✔

The correct answer is: B23B2-3D23D3B3B3

Question **4**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```cpp
struct B {
  B() { std::cout << "B1"; }
  B(int n) { std:: cout << "B2" << n; }
  ~B() { std::cout << "B3"; }
};

struct D : public B {
  D() { std::cout << "D1"; }
  D(int n) : B(n), b(-n) {
    std::cout << "D2"<< n;
  }
  ~D() { std::cout << "D3"; }
private:
 B b;
};

int main() {
  B *pd = new D(3);
  delete pd;
}
```

Answer: B23B2-3D23B3   ✔

The correct answer is: B23B2-3D23B3

Question **5**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```
struct B {
  B() { std::cout << "B1"; }
  B(int n) { std:: cout << "B2" << n; }
  virtual ~B() { std::cout << "B3"; }
};

struct D : public B {
  D() { std::cout << "D1"; }
  D(int n) : B(n), b(-n) {
    std::cout << "D2"<< n;
  }
  ~D() { std::cout << "D3"; }
private:
 B b;
};

int main() {
  B *pd = new D(3);
  delete pd;
}
```

Answer: B23B2-3D23D3B3B3   ✔

The correct answer is: B23B2-3D23D3B3B3

Question **6**

Correct

Mark 15.00 out of 15.00

Write the exact text printed to standard output by the following program?

```
struct B {
  B() {}
  virtual void p() const { std::cout << "B1"; }
  void q() const { std::cout << "B2"; }
};

struct D : public B {
  D() {}
  void p() const { std::cout << "D1"; }
  void q() const { std::cout << "D2"; }
};

int main() {
  B b, *pb = new B, *pd = new D;
  D d, *pd2 = new D;
  b.p();      b.q();
  d.p();      d.q();
  pb->p();   pb->q();
  pd->p();   pd->q();
  pd2->p(); pd2->q();
}
```

Answer: B1B2D1D2B1B2D1B2D1D2   ✔

The correct answer is: B1B2D1D2B1B2D1B2D1D2

◄ Assignment 10: Data Containers - Abstract Classes

Jump to...

Lab 12: Final Review ►