Exercise 1

Exercise 1

(a)

What is the output of the program for the following variant of `foo`?

```
int foo (int& a, int b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)

Exercise 1

(a)

What is the output of the program for the following variant of `foo`?

```
1 2 4 8 16
```

```
int foo (int& a, int b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)

Exercise 1

(b)

What is the output of the program for the following variant of `foo`?

```
int foo (int a, int b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)

Exercise 1

(b)

What is the output of the program for the following variant of `foo`?

```
1 1 1 1 1
```

```
int foo (int a, int b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)

Exercise 1

(c)

What is the output of the program for the following variant of `foo`?

```
int foo (int a, int& b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)

Exercise 1

(c)

What is the output of the program for the following variant of `foo`?

```
1 1 1 1 1
```

```
int foo (int a, int& b) {
  a += b;
  return a;
}
```

```
int main() {
  int a = 0;
  int b = 1;
  for (int i=0; i<5; ++i) {
    b = foo (a, b);
    std::cout << b << " ";
  }
  return 0;
}
```

(From: Exam Summer 2015, Exercise 9)