

Due	No due date	Points	16	Questions	15	Time Limit	30 Minutes	Allowed Attempts	Unlimited
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Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 6	18 minutes	15.5 out of 16
LATEST	Attempt 6	18 minutes	15.5 out of 16
	Attempt 5	15 minutes	13 out of 16
	Attempt 4	29 minutes	13.5 out of 16
	Attempt 3	18 minutes	15.5 out of 16
	Attempt 2	18 minutes	12 out of 16
	Attempt 1	27 minutes	12 out of 16



⚠ Correct answers are hidden.

Submitted Jun 28 at 11:36pm

Question 12 / 2 pts

Match each item with the correct statement below.

File containing the declarations or prototypes

interface

Program which uses the functions in a library.

client

File containing the function definitions

implementation

File which contains instructions for building your program

makefile

Question 21 / 1 pts

In a client file you should compare your function's value to the _____?

☐ checked value

☒ expected value

☐ actual value

☐ None of these

Question 31 / 1 pts

In a library, the *interface* file:

☐ consists of function definitions

☒ consists of declarations or prototypes

☐ consists of instructions that produce the executable

☐ None of these

- ☐ consists of function calls

Question 4

1 / 1 pts

What kind of error is this?

```
~/workspace/ $ ./ex1
The Patriots won the 2018 Super Bowl
```

- ☒ None of these
- ☐ Type error (wrong initialization or assignment)
- ☐ Operating system signal or trap
- ☐ Linker error (something is missing when linking)
- ☐ Compiler error (something is missing when compiling)
- ☐ Runtime error (throws exception when running)
- ☐ Syntax error (mistake in grammar)

Question 5

1 / 1 pts

What kind of error is this?

```
ex1.cpp:7:9: warning: missing terminating '"' character
    a = "hello world';
        ^
ex1.cpp:7:9: error: expected expression
```

- ☐ Runtime error (throws exception when running)
- ☒ Syntax error (mistake in grammar)
- ☐ Linker error (something is missing when linking)
- ☐ Type error (wrong initialization or assignment)
- ☐ None of these
- ☐ Compiler error (something is missing when compiling)
- ☐ Operating system signal or trap

Question 6

1 / 1 pts

Which line in the function "skeleton" below contains an error?

```
#include "borgia.h"           // 1.
void primoTiara(int n)       // 2.
{                             // 3.
    return 0;                 // 4.
}                             // 5.
```

- ☐ None of these
- ☐ // 2.
- ☐ // 5.
- ☐ // 1.

☒ // 4.

☐ // 3.

Question 7

1 / 1 pts

Which prototypes in the following header file contain errors?

```
#ifndef EXAMPLE_H
#define EXAMPLE_H
#include <string>

std::string f1(int a);
int f2(double);
void f3(std::string& s, int n);
double f4();

#endif
```

☐ f4

☐ f3

☒ None of these

☐ f1

☐ f2

Question 8

1 / 1 pts

Match each item with the correct statement below.

Meaning of value returned from a function

@return

Begin a block of source code

@code

Information about the library

@version

Name and meaning for a parameter

@param

Question 9

1 / 1 pts

What is the output of the following?

```
int i = 1;
while (i < 20)
{
    cout << i << " ";
    i = i + 2;
    if (i == 15)
    {
        i = 19;
    }
}
```

☐ 1 3 5 7 9 11 13 15 17

☐ 1 3 5 7 9 11 13 15 17 19

- ☒ 1 3 5 7 9 11 13 19
- ☐ 1 3 5 7 9 11 13 17 19

Question 10

1 / 1 pts

Here is an implementation of codeForDigit() from H07. What is its problem?

```
string codeForDigit(int digit) {
    switch (digit) {
        case 0: return "||::";
        case 1: return "::||";
        case 2: return "::|:";
        case 3: return "::||:";
        case 4: return ":||:";
        case 5: return "||:|";
        case 6: return "||::";
        case 7: return "||::|";
        case 8: return "||::|";
        case 9: return "||::|";
    }
    return "";
}
```

- ☐ It gives the wrong output since you need case '0', not case 0:
- ☒ It compiles and produces the correct output
- ☐ It does not compile because you can't use digit as a switch selector
- ☐ It does not compile since you can have only one return statement in a function
- ☐ It does not compile since it has an extra return statement at the end

Partial

Question 11

0.5 / 1 pts

In H07, one task is to write **stubs** for each of the functions in the library. Below is an attempt to do that. What is the problem?

```
std::string barCode(int zip); { return ""; }
std::string codeForDigit(int digit); { return ""; }
int checkDigit(int zip); { return ""; }
```

- ☐ the braces are formatted incorrectly
- ☐ you are returning the wrong type from some functions
- ☐ the wrong values are being returned
- ☒ you have not removed the semicolons from the prototypes
- ☐ There is nothing wrong with the stubs. They are fine
- ☐ you have not removed the std:: from the prototypes

Question 12

1 / 1 pts

Here is an implementation of checkDigit() from H07. What is its problem?

```
int checkDigit(int zip) {
    int sum = 0;
    while (zip != 0) {
        sum += zip % 10;
        zip /= 10;
    }
    if (sum % 10 != 0)
        return 10 - sum % 10;
    return 0;
}
```

- ☐ It does not compile because you are missing the else
- ☒ It compiles and produces the correct output in all cases
- ☐ It produces the wrong output if sum is evenly divisible by 10
- ☐ It skips one digit since you should divide by 10 **before** adding to sum instead of after
- ☐ It produces the wrong output when sum is not evenly divisible by 10



Question 13

1 / 1 pts

In H08 you need to complete the digit() function. What should replace the blank line below?

```
string digit(int digit, const string& symbols)
{
    string one = symbols.substr(0, 1);
    string five = 
    string ten = symbols.substr(2, 1);
}
```

- ☐ symbols.substr(0, 2);
- ☒ symbols.substr(1, 1);
- ☐ symbols.substr(1, 2);
- ☐ symbols.substr(0, 1);
- ☐ None of these are correct

Question 14

1 / 1 pts

In H08 you need to complete the digit() function. What should replace the blank line below?

```
string digit(int digit, const string& symbols)
{
    string one = 
    string five = symbols.substr(1, 1);
    string ten = symbols.substr(2, 1);
}
```

- ☐ symbols.substr(1, 2);
- ☐ None of these are correct
- ☐ symbols.substr(1, 1);
- ☐ symbols.substr(0, 2);
- ☒ symbols.substr(0, 1);

In H08 you need to complete the `digit()` function. What should replace the blank line below?

```
string digit(int digit, const string& symbols)
{
    string one = symbols.substr(0, 1);
    string five = symbols.substr(1, 1);
    string ten = 
```

- ☒ `symbols.substr(2, 1);`
- ☐ None of these are correct
- ☐ `symbols.substr(1, 2);`
- ☐ `symbols.substr(0, 2);`
- ☐ `symbols.substr(1, 1);`

