

Q-08

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	<a href="#">Attempt 3</a>	18 minutes	15.5 out of 16
LATEST	<a href="#">Attempt 5</a>	15 minutes	13 out of 16
	<a href="#">Attempt 4</a>	29 minutes	13.5 out of 16
	<a href="#">Attempt 3</a>	18 minutes	15.5 out of 16
	<a href="#">Attempt 2</a>	18 minutes	12 out of 16
	<a href="#">Attempt 1</a>	27 minutes	12 out of 16

Correct answers are hidden.

Submitted Jun 28 at 11:17pm

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 \_\_\_\_\_?

☐ None of these

☒ expected value

☐ actual value

☐ checked value

Question 31 / 1 pts



In a library, the ***makefile***:

- ☒ consists of instructions that produce the executable
- ☐ consists of function definitions
- ☐ consists of declarations or prototypes
- ☐ consists of function calls
- ☐ None of these

Question 4

1 / 1 pts

What kind of error is this?

ex1.cpp:7: undefined reference to `f()'

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

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.

// 3.

None of these

// 5.

// 4.

// 2.

// 1.

Question 7

1 / 1 pts

Which of these are ***dependencies***?

EXE=digit-tester

OBJ=client.o digits.o

\$(EXE): \$(OBJ)

\$(CXX) \$(CXXFLAGS) \$(OBJ) -o \$(EXE)

client.o

digits.o

None of these

\$(EXE)

digit-tester

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;

int sum = 0;

while (i <= 13)

{

sum = sum + i;

i = i + 3;

}

cout << "The value of sum is " << sum;

The value of sum is 13

☒ The value of sum is 35

☐ The value of sum is 22

☐ The value of sum is 0

Incorrect

### Question 10

0 / 1 pts

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

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

☒ It compiles and produces the correct output

☐ It does not compile since you can have only one return statement in a function

☐ If it does compile, it produces incorrect output because of the missing break statements

☐ It does not compile because you can't use `digit` as a switch selector

☐ It may not compile because it is missing a break on each line

### Question 11

1 / 1 pts

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

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

☐ It does not compile because you can't use `digit` as a switch selector

☒ It compiles and produces the correct output

- ☐ It does not compile since you can have only one break statement in a function
- ☐ It does not compile because you can't have **two** statements following a case label
- ☐ It compiles but always sets every result to " | : | : " (case 9)

Incorrect

### Question 12

0 / 1 pts

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

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

Incorrect

### Question 13

0 / 1 pts

In H08, the ones(), tens() and hundreds() functions are already written. You need to complete the digit() function. Once you have completed it, what is the expected output for the code below?

```
inline string ones(int n) { return digit(n, "IVX"); }
string digit(int digit, const string& symbols) { . . . }
cout << ones(9) << endl;
```

- ☐ IX
- ☐ XI
- ☐ IVV
- ☒ VIV
- ☐ VIII

### Question 14

1 / 1 pts

In H08, the ones(), tens() and hundreds() functions are already written. You need to complete the digit() function. Once you have completed it, what is the expected output for the code below?

```
inline string ones(int n) { return digit(n, "IVX"); }
string digit(int digit, const string& symbols) { . . . }
cout << ones(5) << endl;
```

☐ X

☐ IIIII

☐ I

☒ V

☐ VX

### Question 15

1 / 1 pts

In H08, the ones(), tens() and hundreds() functions are already written. You need to complete the digit() function. Once you have completed it, what is the expected output for the code below?

```
inline string tens(int n) { return digit(n, "XLC"); }  
string digit(int digit, const string& symbols) { . . . }  
cout << tens(7) << endl;
```

☐ XXX

☐ XXL

☒ LXX

☐ CLL

☐ LLC

