


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 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.

bmitted Jun 28 at 10:24pm

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

☐ actual value

☒ expected value

☐ None of these

Question 31 / 1 pts

In a library, the *makefile*:

☐ consists of function calls

☒ consists of instructions that produce the executable

☐ None of these

☐ consists of declarations or prototypes

☐ consists of function definitions



Question 4	1 / 1 pts
<p>What kind of error is this?</p> <p><b>ex1.cpp:7: undefined reference to `f()'</b></p>	
<div><div><input type="radio"/></div><div>Runtime error (throws exception when running)</div></div>	
<div><div><input type="radio"/></div><div>Syntax error (mistake in grammar)</div></div>	
<div><div><input type="radio"/></div><div>Operating system signal or trap</div></div>	
<div><div><input type="radio"/></div><div>None of these</div></div>	
<div><div><input checked="" type="radio"/></div><div>Linker error (something is missing when linking)</div></div>	
<div><div><input type="radio"/></div><div>Compiler error (something is missing when compiling)</div></div>	
<div><div><input type="radio"/></div><div>Type error (wrong initialization or assignment)</div></div>	

Question 5	1 / 1 pts
<p>What kind of error is this?</p> <p><b>terminate called after throwing an instance of 'std::out_of_range'</b></p>	
<div><div><input type="radio"/></div><div>Linker error (something is missing when linking)</div></div>	
<div><div><input type="radio"/></div><div>None of these</div></div>	
<div><div><input type="radio"/></div><div>Syntax error (mistake in grammar)</div></div>	
<div><div><input type="radio"/></div><div>Operating system signal or trap</div></div>	
<div><div><input type="radio"/></div><div>Compiler error (something is missing when compiling)</div></div>	
<div><div><input checked="" type="radio"/></div><div>Runtime error (throws exception when running)</div></div>	
<div><div><input type="radio"/></div><div>Type error (wrong initialization or assignment)</div></div>	

Question 6	1 / 1 pts
<p>An incomplete, yet compilable, linkable and executable function is called a _____ ?</p>	
<div><div><input type="radio"/></div><div>None of these</div></div>	
<div><div><input checked="" type="radio"/></div><div>stub</div></div>	
<div><div><input type="radio"/></div><div>prototype</div></div>	
<div><div><input type="radio"/></div><div>declaration</div></div>	

Question 7	1 / 1 pts
<p>When you <b>call</b> a function, the compiler must know:</p>	
<div><div><input type="checkbox"/></div><div>the name of each argument</div></div>	
<div><div><input checked="" type="checkbox"/></div><div>the number of arguments to pass</div></div>	
<div><div><input checked="" type="checkbox"/></div><div>the name of the function</div></div>	

☒ the kind of value returned if any

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 17 19
- ☒ 1 3 5 7 9 11 13 19
- ☐ 1 3 5 7 9 11 13 15 17 19
- ☐ 1 3 5 7 9 11 13 15 17

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

Question 11

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

Partial

Question 12

0.5 / 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 produces the wrong output when sum is not evenly divisible by 10
- ☐ 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

### Question 13

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(9) << endl;
```

☐ CL

☐ XL

☒ XC

☐ IX

☐ LX

### 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;
```

☐ I

☐ X

☐ IIIII

☐ VX

☒ V

### 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 hundreds(int n) { return digit(n, "CDM"); }  
string digit(int digit, const string& symbols) { ... }  
cout << hundreds(4) << endl;
```

☐ CDM

☒ CD

☐ DC

☐ DM

☐ CM