Started on	Thursday, 5 November 2020, 10:09 PM
State	Finished
Completed on	Thursday, 5 November 2020, 10:25 PM
Time taken	16 mins 22 secs
Marks	8.25/15.00
Grade	**55.00** out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

Consider the following code snippet:

```
char s[10] = "abcd";
s[4] = 'e';
```

How many null characters are present in the array `s`?

Select one:

- 1 cross out
- 5 cross out
- 6 ✖ cross out
- 7 cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: 5

Question 2

Correct

Mark 1.00 out of 1.00

Suppose we have the following declarations:

```
int a[10] = {0};
int *p = a;
```

What will the expression `*++p = 10;` do?

Select one:

- It will set `a[0]` to 10, and move `p` to point to `a[1]` cross out
- It will set `a[1]` to 10 and move `p` to point to `a[1]` ✔ cross out
- It will increment the value at `a[0]` and then set it to 10. cross out
- The expression will result in an error. cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: It will set `a[1]` to 10 and move `p` to point to `a[1]`

Question 3

Correct

Mark 1.00 out of 1.00

Suppose we create a 2D array of `int` using the following declaration:

```
int a[30][5];
```

What element does `*(a + 5)[3]` point to?

Select one:

- `a[5][3]` cross out
- `a[3][5]` cross out
- It points to the entire row of a[8]. cross out
- It doesn't point to any element in `a` ✔ cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: It doesn't point to any element in `a`

Question 4

Incorrect

Mark 0.00 out of 1.00

Suppose we have declared an array of `int` using `int a[10] = {0}`, and another array using `int b[5] = {0}`. What will the expression `&a[3] - &b[1]` return?

Select one:

- `2 * sizeof(int)` cross out
- 2 ✖ cross out
- 0 cross out
- The expression will result in undefined behaviour. cross out
- The expression will cause an error. cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: The expression will result in undefined behaviour.

Question 5

Partially correct

Mark 0.25 out of 1.00

Suppose we have the following declarations:

```
int a;
int *p = &a;
```

Which of the following are valid ways to read an `int` from `stdin` into `a`?

Select all that apply:

- `scanf("%d", &a);` ✔ cross out
- `scanf("%d", a);` cross out
- `scanf("%d", *a);` cross out
- `scanf("%d", &p);` cross out
- `scanf("%d", p);` cross out
- `scanf("%d", *p);` ✖ cross out

Your answer is partially correct.

Click "Next page" to continue

The correct answers are: `scanf("%d", &a);`, `scanf("%d", p);`

Question 6

Correct

Mark 1.00 out of 1.00

Suppose we have the following declarations:

```
int a = 1, b = 2;
int *p = &a, *q = &b;
```

How can we use the pointers to copy the value of `b` into `a`?

Select one:

- `&p = &q;` cross out
- `*p = &q;` cross out
- `*p = *q;` ✔ cross out
- `&p = *q;` cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: `*p = *q;`

Question 7

Correct

Mark 1.00 out of 1.00

Suppose, given some variable `a`, we have the following pointer declaration:

```
int *p = &a;
```

Which of the following is the expression `&*&*&*p` equivalent to?

Select all that apply:

- [x] `p` ✔ cross out
- [ ] `&&p` cross out
- [ ] `&p` cross out
- [ ] `*p` cross out
- [x] `&(*p)` ✔ cross out

Your answer is correct.

Click "Next page" to continue

The correct answers are: `p`, `&(*p)`

Question 8

Correct

Mark 1.00 out of 1.00

Which, if any, of the following function prototypes will prevent us from changing the integer pointed to by `a`?

Select all that apply:

- [ ] `void f(int *a);` cross out
- [x] `void f(const int *a);` ✔ cross out
- [ ] `void f(int * const a);` cross out
- [x] `void f(const int * const a);` ✔ cross out

Your answer is correct.

Click "Next page" to continue

The correct answers are: `void f(const int *a);`, `void f(const int * const a);`

Question 9

Correct

Mark 1.00 out of 1.00

Assuming it compiles successfully, what is the output of the following program?

```
int x = 5;

void change(int x) {
  x = 15;
}

int main() {
  int x = 10;
  printf("%d", x);
  return 0;
}
```

Select one:

- 15 cross out
- 10 ✔ cross out
- 5 cross out

Your answer is correct.

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The correct answer is: 10

Question 10

Correct

Mark 1.00 out of 1.00

What is the output of the following program?

```
#include <stdio.h>
int i = 0;

int f(int n) {
  i = 10 + i;
  int i = 20;
  return ++n;
}

int main() {
  f(i);
  printf("%d\n", i + 1);
  return 0;
}
```

Select one:

- 0 cross out
- 1 cross out
- 2 cross out
- 10 cross out
- 11 ✔ cross out
- 20 cross out
- 21 cross out
- This program will not compile cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: 11

Question 11

Incorrect

Mark 0.00 out of 1.00

Consider the following code snippet:

```
char s[] = "Hello, World!";
s += 1;
```

What will be be the result of `printf(s)`?

Select one:

- Hello, World! cross out
- lello, World! cross out
- ello, World! ✖ cross out
- The code snippet contains an error. cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: The code snippet contains an error.

Question 12

Incorrect

Mark 0.00 out of 1.00

Consider the following code snippet:

```
char s[] = "Hello, world!";
s[7] = 'W';
s[8] = '\0';
```

What will be be the result of `printf(s)`?

Select one:

- Hello, World! cross out
- Hello, Wrld! cross out
- Hello, W cross out
- The code snippet contains an error. ✖ cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: Hello, W

Question 13

Incorrect

Mark 0.00 out of 1.00

"abc" and "abc\0" are the same string literal.

Select one:

- True ✖ cross out
- False cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: False

Question 14

Correct

Mark 1.00 out of 1.00

Consider the following string:

```
char *s = "abc\012";
```

What will be the result of `printf("%.5s", s)`?

Select one:

- abc ✔ — cross out
- abc\0 — cross out
- abc0 — cross out
- abc01 — cross out
- None of the above. — cross out

Your answer is correct.

Click "Next page" to continue

The correct answer is: abc

Question 15

Incorrect

Mark 0.00 out of 1.00

Consider the following code snippet:

```
char s1[30] = "CMPUT 201";     // There are 9 chars in this string. Really!
char s2[30] = "Hello!";        // This one has 6 chars
strcpy(s1, s2);
s1[6] = 'a';
s2[9] = 'a';
```

What will be the result of `printf(s2)`?

Select one:

- Hello!a — cross out
- CMPUT a01 — cross out
- Hello!a01 ✖ — cross out
- CMPUT 201a — cross out
- CMPUT 201 — cross out
- Hello! — cross out
- None of the above. — cross out

Your answer is incorrect.

Click "Next page" to continue

The correct answer is: Hello!

◄ Practice Quiz #8 (up to Lecture 20/Chap 13)

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Plagiarism Quiz #3 ►