Time left 0:09:18

Question 1	
Not yet answered	
Marked out of 1.00	
What is * (a + 8) equivalent to?	
Select one:	
O &a[8]	cross out
O It depends on how many bytes an int occupies on the machine.	cross out
O a[0] + 8	cross out
O None of the above.	cross out
	cross out
Clear my choice	
Question 2	
Not yet answered	
Marked out of 1.00	
Suppose we create a 2D array of int using the following declaration:	
int a[30][5];	
What element is * (a + 3) [5]?	
Select one:	
O No element in a	cross out
O The entire 9th row of a.	cross out
O a[8][0]	cross out



${\tt Question}~3$

Not yet answered

Marked out of 1.00

What is the output of the following code?

```
#include <stdio.h>
void fun(char *p) {
    *(p+2) = 'o';
    printf("%s", p);
}
int main() {
    char a[] = "souper";
    fun(a);
    return 0;
}
```

O a. o <u>cross out</u>

O b. Passing array when expecting pointer causes undefined behavior cross out

O c. souper <u>cross out</u>

● d. sooper cross out

O e. There is a syntax/compilation error



Question 4 Not yet answered Marked out of 1.00 Suppose we have the following declarations: int a; int *p = &a;int **q = &p;Which of the following are valid ways to read an int from stdin into a? There may be multiple correct answers. Select all that apply: scanf("%d", *a); cross out scanf("%d", *p); cross out □ scanf("%d", a); cross out cross out □ scanf("%d", q); □ scanf("%d", **q); cross out cross out ✓ scanf("%d", p); cross out □ scanf("%d", &p); ✓ scanf("%d", *q); cross out □ scanf("%d", &q); cross out cross out ✓ scanf("%d", &a); Question 5 Not yet answered Marked 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: 0 2 cross out O The expression will cause an error. cross out • The expression will result in undefined behaviour. cross out O 2 * sizeof(int) cross out 0 0 cross out



Question 6	
Not yet answered	
Marked 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? There	may be multiple correct answers.
Select all that apply:	
<pre>□ scanf("%d", *p);</pre>	<u>cross out</u>
✓ scanf("%d", &a);	cross out
<pre>□ scanf("%d", *a);</pre>	<u>cross out</u>
<pre>□ scanf("%d", &p);</pre>	<u>cross out</u>
<pre>✓ scanf("%d", p);</pre>	<u>cross out</u>
<pre>□ scanf("%d", a);</pre>	<u>cross out</u>
Question 7	
Not yet answered	
Marked out of 1.00	
Suppose we create a 2D array of int using the following declaration:	
int a[30][5];	
What element is *a[3]?	
Select one:	
O No element in a	<u>cross out</u>
<pre> a[3][0]</pre>	<u>cross out</u>
O The entire 4th row.	<u>cross out</u>
O a[0][3]	cross out



Question 8	
Not yet answered Marked out of 1.00	
Marked out of 1.00	
If a is an int variable and a pointer p points to a, then which of the follow expressions will give us a? There may be m	ultiple correct answers.
Select all that apply:	
▼ **&p	<u>cross out</u>
✓ *&a	<u>cross out</u>
□ &p	<u>cross out</u>
▼ *p	<u>cross out</u>
▼ *8*p	<u>cross out</u>
□ &*a	<u>cross out</u>
□ &*&p	<u>cross out</u>
Question 9	
Not yet answered	
Marked out of 1.00	
Suppose, given some int variable a, we have the following pointer declaration:	
int *p = &a	
Which of the following is the expression &*&*&*p equivalent to (yes we intend to put so many & and * operators)? The	ere may be multiple
correct answers.	
Select all that apply:	
□ &&p	cross out
	cross out
□ *p	cross out
▽ p	cross out
	cross out
Question 10	
Not yet answered	
Marked out of 1.00	
Suppose we have declared an array of int using int $a[10] = \{0\}$. What will the expression &a[100] - &a[30]	return?
Select one:	
70	cross out
O The expression will result in undefined behaviour.	<u>cross out</u>
O The expression will cause an error.	cross out
0 0	cross out
O 70 * sizeof(int)	crass <u>out</u>
Clear my choice	

Question 11

Not yet answered

Marked out of 1.00

Consider the following function fragment:

```
void fun(int arg1) {
  int a = arg1 + 5;
  int *p = &a;
```

Which one of the following return statements will provide the calling function with a usable pointer to a?

Select one:

• None of the above return statements will provide us with a usable pointer.

cross out

O return &a;

cross out

O return p;

cross out

O return &arg1; Clear my choice

Question 12

Not yet answered

Marked 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:

The expression will result in an error.It will increment the value at a [0] and then set it to 10.

cross out

• It will set a [1] to 10 and move p to point to a [1]

cross out

O It will set a [0] to 10, and move p to point to a [1]

cross out



Question 13

Not yet answered

Marked 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:

O 5

cross out

O 15

cross out

10

Clear my choice

Question 14

Not yet answered

Marked out of 1.00

Suppose we have declared an array of int using int $a[10] = \{0\}$. What will the expression &a[8] - &a[3] return?

Select one:

O cross out
 O The expression will result in undefined behaviour.
 O The expression will cause an error.
 Cross out
 O 5
 O 5 * sizeof (int)



Question 15

Not yet answered

Marked out of 1.00

Suppose we have the following declarations:

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

Select one:

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

Clear my choice

Last saved at 19:22:30

