(/)

Evaluation quiz correction

Evaluation Quiz: Evaluation #1

Date: 2023-01-20

Status: Done

Duration: 23 minutes

Score: 86.67%

"I don't know": 0

Success: 13

Fail: 2

Responses

0. What is the size of a pointer to an int (on a 64-bit architecture)

Score: 1.0

- 1 byte
- 2 bytes
- 4 bytes
- 8 bytes
- I don't know

1. What is the value of $\, n \,$ after the following code is executed?

```
int n = 98;
int *p = &n;
```

*p++;



Score: 0.0 (/)

98

✓ 99

402

I don't know

2. What is the size of *p in this code on a 64-bit machine?

int **p;

Score: 1.0

4 bytes

8 bytes

16 bytes

I don't know

3. Are there any memory leaks with the following code (on a 64-bit architecture)?

```
#inalude <stdio.h>
#include <stdlib.h>
/**
 * struct list_s - singly linked list
 * @str: string - (malloc'ed string)
 * @len: length of the string
 * @next: points to the next node
 * Description: singly linked list node structure
 * for your project
 */
typedef struct list_s
        char *str;
        unsigned int len;
        struct list_s *next;
} list_t;
int main(void)
{
        list_t *node = NULL;
        node = malloc(sizeof(list_t));
        node->len = 3;
        node->str = malloc(sizeof(char) * node->len);
        node \rightarrow str[0] = 'H';
        node->str[1] = 'i';
        node \rightarrow str[2] = '\0';
        node->next = NULL;
        free(node);
        return (0);
}
```

Score: 1.0

Yes, 3 bytes of memory were lost

- No, no memory leaks were possible
- Yes, 24 bytes of memory were lost
- Yes, 15 bytes of memory were lost
- I don't know

4. How many b	ytes will this sta	tement allocate	on a 64-bit	machine?
(/)				

(/)
malloc(sizeof(int) * 4)

Score: 1.0

- 4
- 8
- **V** 16
- 32
- I don't know

5. What does the macro TABLESIZE expand to?

#define BUFSIZE 1020
#define TABLESIZE BUFSIZE
#undef BUFSIZE
#define BUFSIZE 37

Score: 1.0

- 1020
- ✓ 37
- nothing
- I don't know

6. This void (*anjula[])(int, float) is:

Score: 1.0

- A pointer to a function that takes an int and a float as parameters and returns nothing
- A pointer to a function that takes an array of int and float as a parameter and returns nothing
- A pointer to a function that takes an int and a float as parameters and returns an empty array
- An array of pointers to functions that take an int and a float as parameters and returns nothing
- A pointer to an array of functions that take an int and a float as parameters and returns nothing
- I don't know

7. The memory space reserve	d when calling	malloc	is on:
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(/) Score: 1.0

The	heap
-----	------

- The stack
- I don't know

8. How many bytes will this statement allocate on a 64-bit machine?

malloc(sizeof(char) * 10)

Score: 1.0

- **10**
- 20
- 40
- 80
- I don't know

9. What command(s) can be used to list the symbols stored in a static library?

Select all valid answers

Score: 0.0

- nm
- ranlib
- √ ar
- ld
- I don't know

10. How much space would you need to allocate for a list node with the following structure on a 64-bit machine?

```
/**//
* struct list_s - singly linked list

* @str: string - (malloc'ed string)

* @len: length of the string

* @next: points to the next node

*

* Description: singly linked list node structure

* for your project

*/

typedef struct list_s
{
    char *str;
    unsigned int len;
    struct list_s *next;
} list_t;
```

Score: 1.0

20 bytes

- It's impossible to know without knowing what str is
- 24 bytes
- 32 bytes
- I don't know

11. What does this code print?

```
void print(int nb)
{
    printf("%d", nb);
    -- nb;
    if (nb > 0)
    {
        print(nb);
    }
}
int main(void)
{
    print(4);
    return (0);
}
```

Score: 1.0

4321

- 43210
- 321
- 3210
- I don't know

12. Given this code:

```
struct point {
   int x;
   int y;
};
struct point my_point = { 3, 7 };
struct point *p = &my_point;
```

To set the member y of my variable my_point to 98, I can do (select all valid answers):

Score: 1.0

- my_point.y = 98;
- my_point->y = 98;
- p.y = 98;
- (*p).y = 98;
- $\sqrt{p} = 98;$
- I don't know

13. What is the result of 12 % 3?

Score: 1.0

- **✓** 0
- 2
- 3
- 4
- I don't know

int ()n = 5; int array[5];	
int i = 3;	
<pre>array[n] = i;</pre>	

Score: 1.0

- Nothing is wrong
- lt is impossible to declare the variable array this way
- The array array is not entirely initialized
- While it is possible to access array[n], we are not supposed to as this is not the array anymore
- I don't know

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