(/)

Evaluation quiz correction

Evaluation Quiz: Evaluation #1

Date: 2022-05-13

Status: Done

Duration: 30 minutes

Score: 66.67%

"I don't know": 0

Success: 10

Fail: 5

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?

Score: 1.0



int/)n = 98; int *p = &n	
F 319	
*p++;	
ρ''',	

- 0
- **98**
- 99
- 402
- I don't know
- 2. Are there any memory leaks with the following code (on a 64-bit architecture)? Score: 0.0

Q

```
#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->str[0] = 'H';
        node->str[1] = 'i';
        node->str[2] = '\0';
        node->next = NULL;
        free(node);
        return (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

3. The memory space reserved when calling malloc is on:





/	The heap
	(/) The stack

I don't know

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

Score: 0.0

Select all valid answers

- nm
- ranlib
- ✓ aı
- ld
- I don't know

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

Score: 0.0

malloc(sizeof(int) * 4)

- 4
- 8
- 16
- √ 32
- I don't know

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

Score: 1.0

int **p;

- 4 bytes
- 8 bytes
- 16 bytes



I don't know (/)

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

Score: 0.0

- 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

8. What is wrong with the following code?

Score: 1.0

```
int n = 5;
int array[5];
int i = 3;
array[n] = i;
```

- Nothing is wrong
- It 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

9. What does this code print?

Score: 1.0



```
void print(int nb)
{

    printf("%d", nb);
    -- nb;
    if (nb > 0)
    {
        print(nb);
    }
}

int main(void)
{
    print(4);
    return (0);
}
```

- **4321**
- 43210
- 321
- 3210
- 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?

Score: 1.0

```
/**
 * 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;
```

- 20 bytes
- It's impossible to know without knowing what str is





I don't know

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

```
Score: 1.0
```

```
malloc(sizeof(char) * 10)

10
20
40
```

80

I don't know

12. Given this code:

Score: 0.0

```
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):

```
my_point.y = 98;
my_point->y = 98;
p.y = 98;
(*p).y = 98;
p->y = 98;
```

I don't know

13. What does the macro TABLESIZE expand to?



Score:	1.0
(/)_	
$\overline{}$	

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

- 1020
- **~** 37
- nothing
- I don't know

14. What is the result of 12 % 3?

Score: 1.0

- **✓** 0
- 1
- _ _
- 2
- 1
- I don't know

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