(/)

Curriculum

SE Foundations Average: 108.76%

Evaluation quiz correction

Evaluation Quiz: Evaluation #1

Date: 2023-03-24

Status: Done

Duration: 18 minutes

Score: 60.0%

"I don't know": 0

Success: 9

Fail: 6

Responses

0. What is wrong with the following code?

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

Score: 0.0

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- 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 ar
- I don't know



Help

(/)

	1.	What does	the macro	TABLESIZE	expand 1	to?
--	----	-----------	-----------	-----------	----------	-----

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

Score: 0.0

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

2. What is the result of 12 % 3?

Score: 1.0

- ✓ 0
- ___1
- 3
- 4
- I don't know

3. 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

(/)

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

Score: 0.0

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

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

```
#include <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);
}
```

Score: 0.0

- 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

6. 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

7. 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

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

Score: 1.0

11. 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

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

Score: 1.0

- The heap
- The stack
- I don't know

13. 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->y = 98;
- I don't know

14. 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: 0.0

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

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