Evaluation quiz correction

Evaluation Quiz: Evaluation #1

Date: 2022-04-14

Status: Done

Duration: 36 minutes (including 18 seconds not on the page)

Score: 56.67%

"I don't know": 1

Success: 8

Fail: 6

Responses

0. What does the macro TABLESIZE expand to?

Score: 1.0

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

- [□] ₁₀₂₀
- 🔽 37
- nothing
- I don't know

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

Score: 0.0

```
/**
 * 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
- 24 bytes
- 32 bytes
- I don't know

2. What is the value of n after the following code is executed?

Score: 1.0

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

•		0				
•	V	98				
•		99				
•		402				
•		I don't know				
		id (*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 					
•	arra	A pointer to a function that takes an int and a float as parameters and returns an empty y				
•	notl	An array of pointers to functions that take an int and a float as parameters and returns ning				
•	▽ notl	A pointer to an array of functions that take an int and a float as parameters and returns ning				
•		I don't know				
4. Ho	w m	any bytes will this statement allocate on a 64-bit machine?				
Score:						
malloc	(siz	eof(int) * 4)				
•	Ш	4				
•		8				
•		16				
•	V	32				
•		I don't know				

5. 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				
6. How many bytes will this statement allocate on a 64-bit machine?						
<pre>Score: 1.0 malloc(sizeof(char) * 10)</pre>						
•		10				
•	_	20				
•		40				
•		80				
•		I don't know				
7. What is the result of 12 % 3?						
Score: 1						
•	~	0				
•		1				
•		2				
•		3				
•		4				
•		I don't know				

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

Score: 0.0

Select all valid answers

- · 🔽 nm
- ranlib
- ar
- I don't know

9. 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

10. What does this code print?

Score: 0.0

```
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

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

Score: 0.5

```
#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);
}
```

- 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

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:

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

14. 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

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