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Arrays - 4

Consider the following function:

```
void func(int a[5])
{
    int i;
    for(i = 1; i < 4; i++)
        a[i] = a[i-1] - a[i] + a[i+1];
}
```

What would be the contents of array a after executing this function, if before passing array a is defined as below: (write the elements separated by space i.e 1 2 3 4 5)

Your answers

1.) a[5] = {1, 2, 3, 4, 5};

1 2 3 4 5



2.) a[5] = {5, 4, 3, 2, 1};

5 4 3 2 1



3.) a[5] = {5, 65, 45, 2, 25};

5 -15 -58 -35 25



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Question Attempts

Arrays - 5 ☆

Consider the following function:

```
void func(int a[5])
{
    int i;
    for(i = 1; i < 5; i++)
        a[i] = a[i-1] - a[i];
}
```

What would be the contents of array a after executing this function, if before passing a is as below:

Write the elements only separated by space i.e 1 2 3 4 5

Your answers

1.) a[5] = {1, 2, 3, 4, 5};

1 -1 -4 -8 -13



2.) a[5] = {5, 4, 3, 2, 1};

5 1 -2 -4 -5



3.) a[5] = {5, 65, 45, 2, 25};

5 -60 -105 -107 -132



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Question Attempts

Arrays - 6 ☆

Consider the following function:

```
void func(int a[5])
{
    int i;
    for(i = 0; i < 5; i++)
        if(i%2 == 0)
            a[i]++;
    else
        a[i]--;
}
```

What would be the contents of array a after executing this function, if before passing a is as below:

Write the elements only separated by space i.e 1 2 3 4 5

Your answers

1.) a[5] = {1, 2, 3, 4, 5};

2 1 4 3 6



2.) a[5] = {5, 4, 3, 2, 1};

6 3 4 1 2



3.) a[5] = {5, 65, 45, 2, 25};

6 64 46 1 26



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Question Attempts

Arrays - 7 ☆

Consider the following function:

```
void func(int a[5])
{
    int i;
    for(i = 1; i < 3; i++)
    {
        a[i] = a[i-1] + a[i+1];
        if(a[i]%2 == 0)
            a[i] /= 2;
    }
}
```

What would be the contents of array a after executing this function, if before passing a is as below:

Write the elements only separated by space i.e 1 2 3 4 5

Your answers

1.) a[5] = {1, 2, 3, 4, 5};

1 2 3 4 5



2.) a[5] = {5, 4, 3, 2, 1};

5 4 3 2 1



3.) a[5] = {5, 65, 45, 2, 25};

5 25 27 2 25



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Question Attempts

Arrays: Memory with array - 4 ☆

What will be the output of following program?

```
#include<stdio.h>
int arr[ ] = {1, 2, 3, 4};
int count;
int incr()
{
    return ++count;
}
int main ()
{
    arr[count++] = incr();
    printf ("%d", arr[count]);
    return 0;
}
```

Choose any one

- ☐ 1
- ☐ 2
- ☒ 3 ✓ correct answer
- ☐ 4

Clear selection

See Explanation ▼

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count is a global variable and incremented two times, so at the time of printf() execution, count will have a value of 2. and arr[2] is 3 which will be printed.

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Question

Attempts

Linear Search - 1 ☆

Searching can be defined as.

Choose any one

- ☒ It is the process of finding a record in a table according to a given key value ✓ correct answer
- ☐ It is the operation of arranging the records of table into some sequential order
- ☐ It is movement of data from secondary to primary storage in large blocks
- ☐ None of the above

Clear selection

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Question Attempts

Linear Search - 2 ☆

Which of the below code snippets performs unordered linear search iteratively?

Choose any one

- ☒ `int LinearSearch(int arr[], int size, int data)` ✓ correct answer
- ```
{
 int index = -1;
 for(int i = 0; i < size; i++)
 {
 if(arr[i] == data)
 {
 index = i;
 break;
 }
 }
 return index;
}
```
- ☐ `int LinearSearch(int arr[], int size, int data)`
- ```
{
    int index = 0;
    for(int i = 0; i <= size; i++)
    {
        if(arr[i] == data)
        {
            index = i;
            break;
        }
    }
    return index;
}
```

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Question

Attempts

Linear Search - 3 ☆

Which of the below code snippets performs linear search with recursion?

Choose any one

- ☒ void linSearch(int arr[], int first, int last, int key) ✓ correct answer
{
 if(first == last)
 printf("-1");
 else
 if(arr[first] == key)
 printf("%d",first);
 else
 linSearch(arr, first+1, last, key);
}
- ☐ void linSearch(int arr[], int first, int last, int key)
{
 if(first == last)
 printf("-1");
 else
 if(arr[first] == key)
 printf("%d",last);
 else
 linSearch(arr, first+1, last, key);
}

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