Assignment 2

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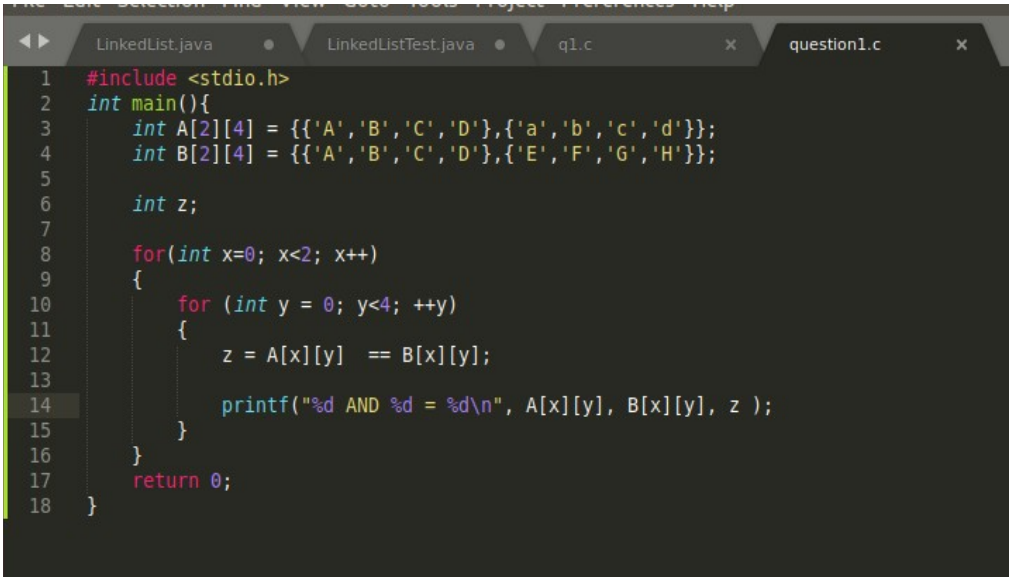
Question (1)

WAP to check if the Characters(of the same address/position)of one Array A are exactly matching with those of the Array B.

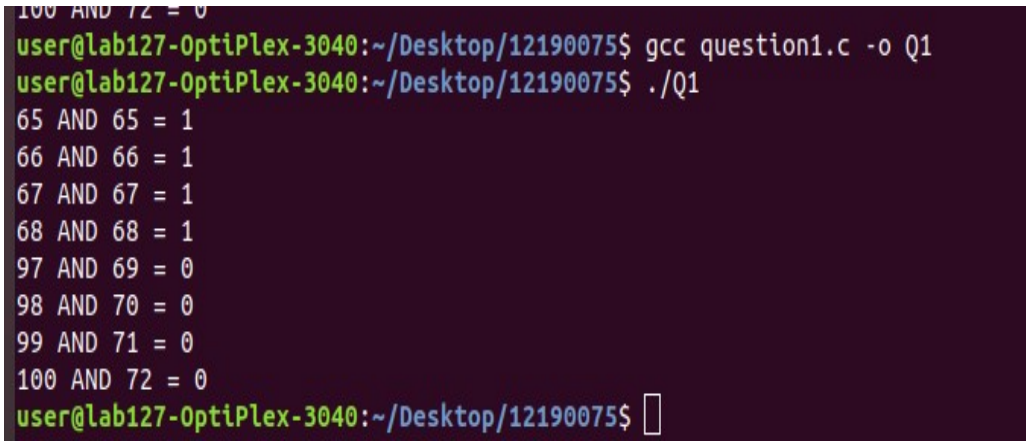
Each 2-D Array is 2*4 dimensional in nature shown as below:-A= {{ 'A', 'B', 'C', 'D' },{ 'a', 'b', 'c', 'd' }};B= {{ 'A', 'B', 'C', 'D' }, { 'E', 'F', 'G', 'H' }};Solve it by using For Loop.

The Output should be: 1,1,1,1,0,0,0,0(vertically).

Answer:



Output:



Question (2)

WAP to print the following pattern by using For-Loop.

```
*
* *
* * *
* * * *
* * * * *
```

Answer:

LinkedList.java | LinkedListTest.java | q1.c

```c
#include <stdio.h>
int main()
{
    int i, j, rows;
    printf("Enter the number of rows: " );
    scanf("%d", &rows);
    for (i = 1; i<= rows; ++i){
        for (j = 1; j <= i; ++j)
        {
            printf("* ");

        }
        printf("\n");
    }
    return 0;
}
```

Output:

```
user@lab127-OptiPlex-3040:~/Desktop/12190075$ gcc q1.c -o Q1
user@lab127-OptiPlex-3040:~/Desktop/12190075$ ./Q1
Enter the number of rows: 5
*
* *
* * *
* * * *
* * * * *
user@lab127-OptiPlex-3040:~/Desktop/12190075$ 6
6: command not found
user@lab127-OptiPlex-3040:~/Desktop/12190075$ gcc q1.c -o Q1
user@lab127-OptiPlex-3040:~/Desktop/12190075$ ./Q1
Enter the number of rows: 6
*
* *
* * *
* * * *
* * * * *
* * * * * *
user@lab127-OptiPlex-3040:~/Desktop/12190075$
```

Question (3)

WAP to print the following pattern by using For-Loop

```
0
0 1
0 1 2
0 1 2 3
0 1 2 3 4
```

Answer:

```c
#include <stdio.h>
int main()
{
    int i, j, rows;
    printf("Enter the number of rows: " );
    scanf("%d", &rows);
    for (i = 0; i<= rows; ++i){
        for (j = 0; j <= i; ++j)
        {
            printf("%d ", j);

        }
        printf("\n");
    }
    return 0;
}
```

Output:

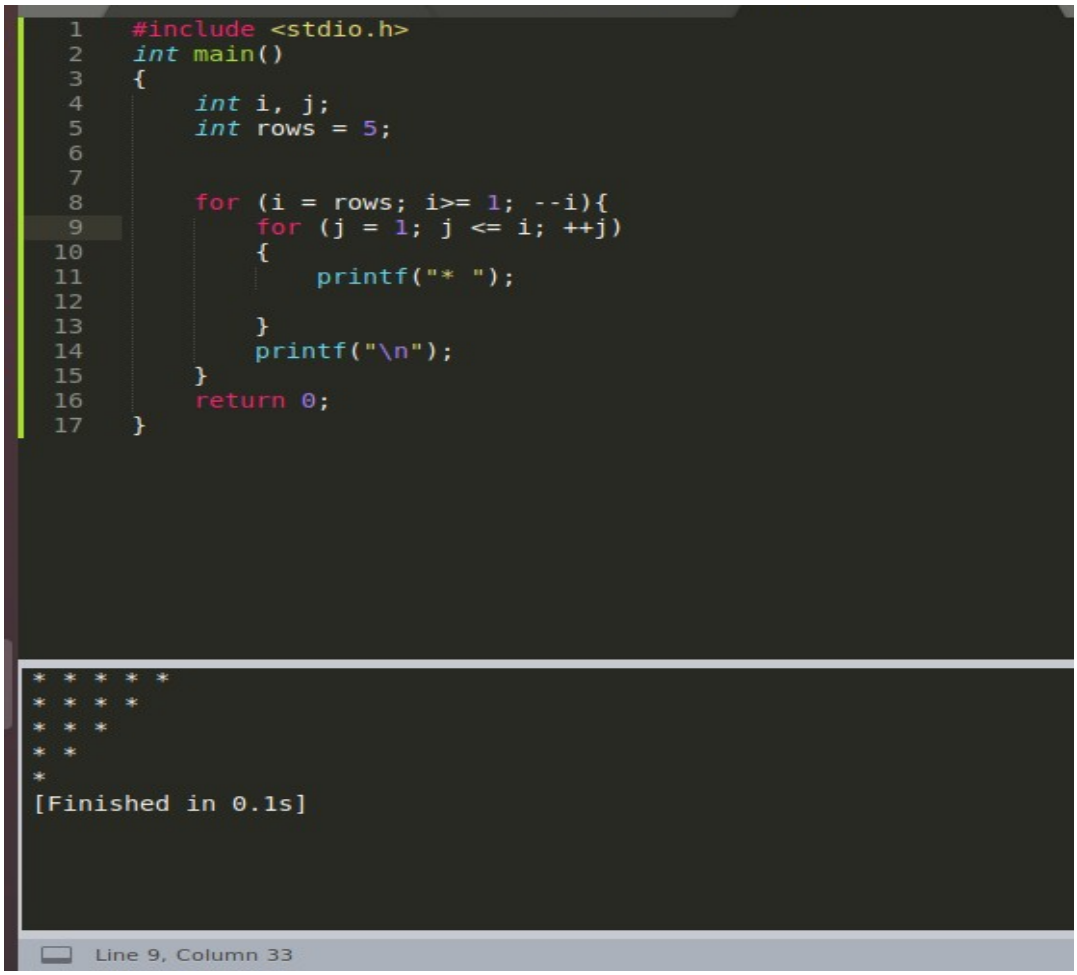
```
user@lab127-OptiPlex-3040:~/Desktop/12190075$ gcc q1.c -o Q1
user@lab127-OptiPlex-3040:~/Desktop/12190075$ ./Q1
Enter the number of rows: 5
0
0 1
0 1 2
0 1 2 3
0 1 2 3 4
0 1 2 3 4 5
user@lab127-OptiPlex-3040:~/Desktop/12190075$ gcc q1.c -o Q1
user@lab127-OptiPlex-3040:~/Desktop/12190075$ ./Q1
Enter the number of rows: 4
0
0 1
0 1 2
0 1 2 3
0 1 2 3 4
user@lab127-OptiPlex-3040:~/Desktop/12190075$
```

Question (4)

WAP to print the following pattern by using For-Loop.

* * * * *
* * * *
* * *
* *
*

Answer:



Question (5)

WAP to find the output of the 1-D, 3-Input AND Gate. Each 1-D Array is a 1*8dimensional in nature shown as below:-A = { 0, 0, 0, 0, 1, 1, 1, 1 }; B[] = { 0, 0, 1, 1, 0, 0, 1, 1 }; C[] = { 0, 1, 0, 1, 0, 1, 0, 1 };

Solve it by using For Loop.

The Output should be: 0, 0, 0, 0, 0, 0, 0, 1

Answer: