

[CS302-Data Structures] Quiz 2

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Q1: Predict the Output of the following program

```
#include <stdio.h>
int fun(int n)
{
    if (n == 4)
        return n;
    else return 2*fun(n+1);
}
int main()
{
    printf("%d ", fun(2));
    return 0;
}
```

Instructor: Kostas Alexis

A.	4
B.	8
C.	16
D.	Runtime Error

A1:

С

Commented [KA1]: C

```
Commented [KA2]: C
```

```
int fun(int x, int y)
{
    if (y == 0)         return 0;
    return (x + fun(x, y-1));
}

int fun2(int a, int b)
{
    if (b == 0) return 1;
    return fun(a, fun2(a, b-1));
}
```

A.	x*y
B.	x+x*y
C.	χΛу
D.	у^х

A2:

С