

[google.com/search?q=recursion](https://www.google.com/search?q=recursion)

$O(1)$

“constant”

$O(\log n)$

“logarithmic”

$O(n)$

“linear”

$O(n \log n)$

“supralinear”

$O(n^2)$

“quadratic”

$O(n^c)$

“polynomial”

$O(n!)$

“factorial”

wi-fi

Pass/Fail, Add/Drop

```
a = OJ;  
b = milk;
```

```
a = b;  
b = a;
```

```
tmp = a;  
a = b;  
b = tmp;
```

```
void  
swap(int a, int b)  
{  
    int tmp = a;  
    a = b;  
    b = tmp;  
}
```



```
void  
swap(int *a, int *b)  
{  
    int tmp = *a;  
    *a = *b;  
    *b = tmp;  
}
```

CS50 Library

GetChar

GetDouble

GetFloat

GetInt

GetLongLong

GetString

```
int
main(void)
{
    int*    x;
    int*    y;

    x = malloc(sizeof(int));

    *x = 42;

    *y = 13;

    y = x;

    *y = 13;
}
```

to be continued...