

2021-10-31

Today Learned:

[Introduction of Algorithms lecture 3 \(Not all\)](#)
(Corresponding to the 3rd chapters of the book)

Today Exercise:

[Sqrt\(x\) \(From LeetCode\)](#)

```
int mySqrt(int x) {  
    if (x == 0) return 0;  
    if (x == 1) return 1;  
    int left = 0, right = x, res = 0;  
    while (right - left > 1) {  
        int mid = (right + left) / 2;  
        if (x / mid < mid) {  
            right = mid;  
        } else {  
            left = mid;  
            res = left;  
        }  
    }  
    return res;  
}
```

Coding Notes:

Binary-Search

"Sqrt(x)"

```
int mySqrt(int x) {  
    if (x == 0) return 0;  
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    while (right - left > 1) {  
        int mid = (right + left) / 2;  
        if (x / mid < mid) {  
            right = mid;  
        } else {  
            left = mid;  
            res = left;  
        }  
    }  
    return res;  
}
```

