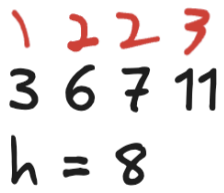
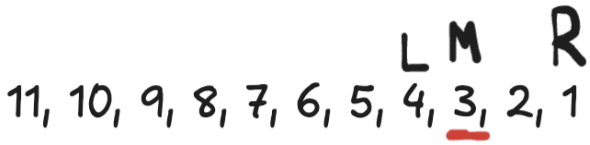
Pseodocode and code






```
Target = 10
// Looking for 10

// somewhere in binary search
if (arrays[m] == target)
    return m;
```

```
Left = max(piles) -- 11, 5
Right = 1 -- 1,
MinValue = left

While( L > R)
    M = (L+R)//2    -- 6, 3, 4
    // floor division rounds to the smallest  number

    totalTime = 0  -- 6, 10
    for p in piles:
        totalTime += math.ceil(p / M)

    if totalTime <= h
        L = M - 1
       MinValue = M

    if totalTime > h
        R = M+1
return M
```

```
// in English
M = 15
15 will take Koko 8 hours to eat piles
8 > h
therefore M = 15 is not the answer


// 15 will take Koko 8 hours to eat piles
totalTime = 0
for p in piles:
    totalTime += (p / M)


if totalTime <= h
    return m
```

Time complexity graph:

Goal : is to find the least amount of banana's Koko can eat per hour, where she will eat all the bananas before the guards come back

Solution n (log m)