2) * Floor of Number

- greatest number smaller or equals to target

- arr = [2, 3, 5, 9, 14, 16, 18]   target = 15
       0 1 2 3 4   5   6

// Same thing as before, just return
end instead of -1, if no target found.
Let's check!
      => after loop is violated

[start   target   End]

              !! // if ans not found and not
                     in the range.

[End   ans   start] => start > end
    ↓   ↓ loop break
it is greatest number smaller or equal
to target

- So answer is End, if target not found

Let's code:

```
floor (int[] arr, int start) {
    int start = 0;
    int end = arr.length - 1;
```

```
while (start <= end) {

    int mid = start + (end - start) / 2;

    if (target > arr[mid]) {
        start = mid + 1;
    }
    else if ( target < arr[mid]) {
        end = mid - 1;
    }
    else {
        return mid; // target found
    }
}

return end; // answer greatest number
            smaller than target if not
            found.
}
```