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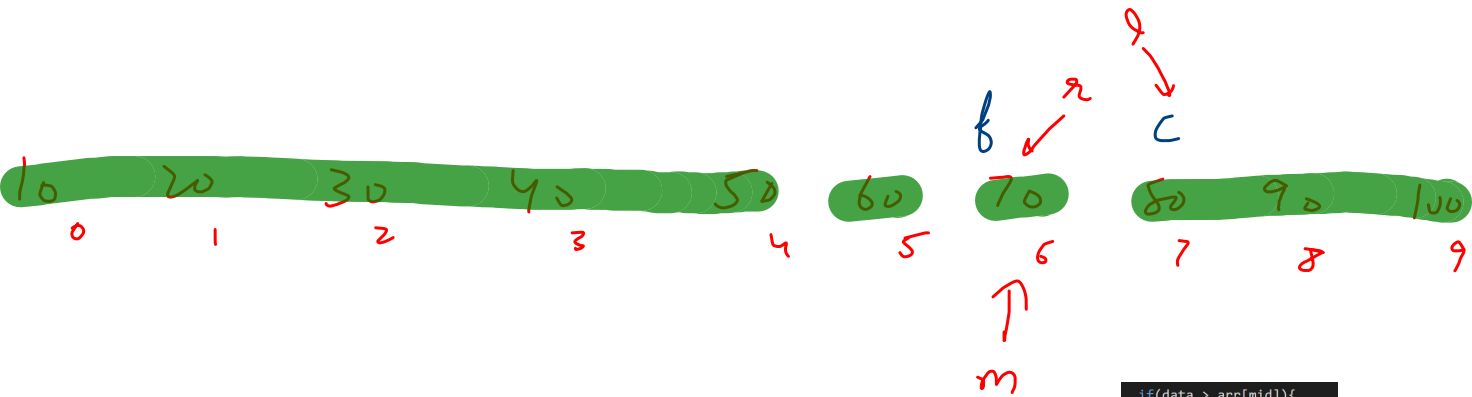
40

$li \approx 10$

$d > \rightarrow$

$d < \leftarrow$

$d = li \rightarrow$



77

```
if(data > arr[mid]){
    left = mid + 1;
    // left to mid are all less than data
    floor = arr[mid];
} else if(data < arr[mid]{
    right = mid - 1;
    // mid to right are all greater than data
    ceil = arr[mid];
} else {
    floor = arr[mid];
    ceil = arr[mid];
    break;
}
```

