

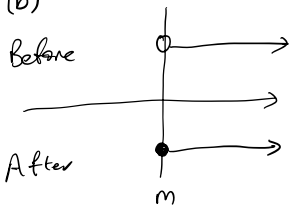
2.1(a)

Situation	eg.	Prev. $i=k$	$i \geq k$
$i < k$	$2 < 3$	F	F
$i = k$	$3 = 3$	T	T
$i > k$	$4 > 3$	F	T

Same

← Never happens!

2.1(b)



Difference is at $l_i = m$

→ when $l_i = m$ we will replace as well.

→ Return the last max item.

current max

2.1(c)

$i=0 \rightarrow$ check 0 $\rightarrow i++ \rightarrow$ e does not change anything.

check 1 $\rightarrow i++ \rightarrow$

check 2 $\rightarrow \dots$

prev.

2.1(d)

$i=1 \rightarrow m = l_0 \rightarrow i++ \rightarrow$ check 2 missing check 1

$i++ \rightarrow$ check 3 ...

$\dots \rightarrow$ check k exceed k-1

2.1(e)

$m = -\infty \rightarrow$ check 0 $\rightarrow i++ \rightarrow$

check 1 $\rightarrow i++ \rightarrow \dots$

check k-1 $\rightarrow i++ \rightarrow$ end.

2.2 change $l_i > m \rightarrow l_i < m$.

2.3 $S = \sum_{i=0}^{k-1} l_i$

$S = l_0$

$S = S + l_1$

\vdots

$S = S + l_{k-1}$

