

Question 2

Question 2

1 point possible (graded)

```
;; Icon -> Boolean
;; produce true if the given icon is more than 30 pixels high
(check-expect (too-tall? STEP-ICON) false)
(check-expect (too-tall? RUNNING-STICKMAN-ICON) true)

(define (too-tall? i) false) ;stub
```

Choose the simplest correct function definition for `too-tall?`.

☐

```
(define (too-tall? i)
  (if (> (image-height i) 30)
      true
      false))
```

☐

```
(define (too-tall? i)
  (cond [(> (image-height i) 30) true]
        [else false]))
```

☒

```
(define (too-tall? i)
  (> (image-height i) 30))
```

☐

```
(define (too-tall? i)
  (> i 30))
```

Explanation

We consider the first 3 options since they will not produce errors in the program. Since there are only two cases, we might consider using `if` instead of `cond`. However,

```
(if XXX
    true
    false)
```

can be simplified to:

```
XXX
```

So we could avoid redundancy and make the function even simpler by writing:

```
(define (too-tall? i)
  (> (image-height i) 30))
```

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i Answers are displayed within the problem