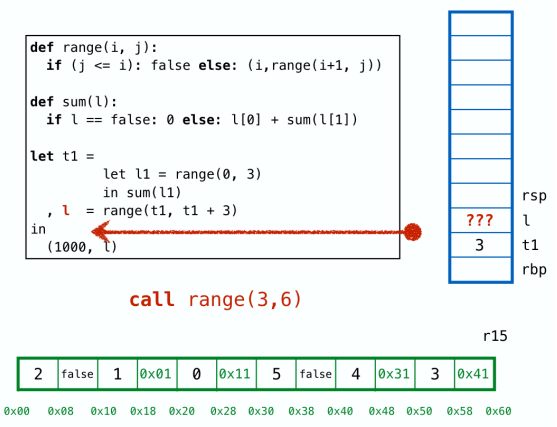
Worksheet 9A

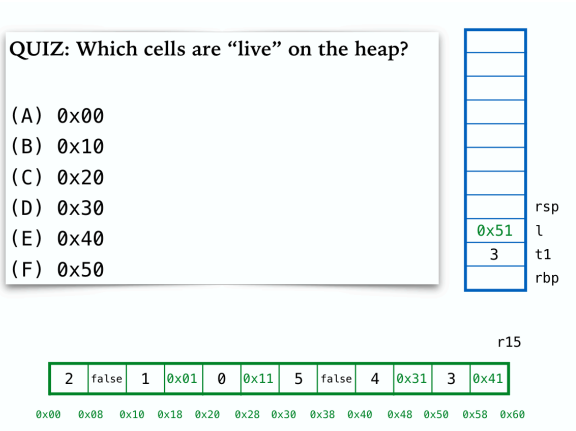
Quiz 1: *Recursive Data*

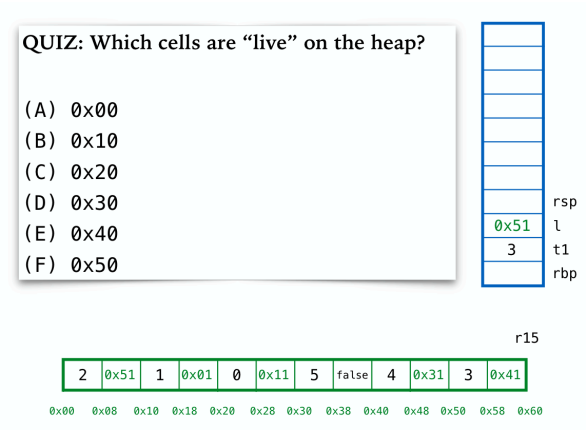


What is the value of `l` at the point indicated by the red arrow?

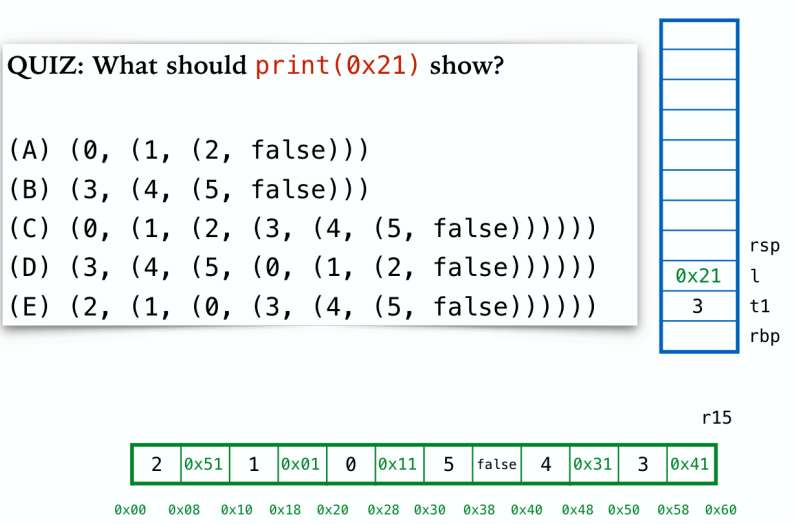
a) `0x30`
b) `0x31`
c) `0x50`
d) `0x51`
e) `0x60`

Quiz 2: *Live Cells*





Quiz 3: *What should be printed?*



Quiz 4: *Register Optimized Code*

Program

```
(let ((a1 (+ 10 10))
      (a2 (* 2 a1))
      (a3 (* 3 a2)))
  (* 10 a3))
```

Optimized Asm

```
```

```
(let ((n (* 5 5))
      (m (* 6 6))
      (x (+ n 1))
      (y (+ m 1)))
    (+ x y))
```

```
```

```
(defn (f a)
  (let ((x (* a 2))
        (y (+ x 7)))
    y))
```

```
; a --> [rbp + 16]
```

```
(defn (f a)
  (let ((x (* a 2))
        (y (+ x 7)))
    (g x y)))
```

```
; a --> [rbp + 16]
```

Quiz 5: *Your turn!*

What is something you found confusing in today's lecture (or earlier)?