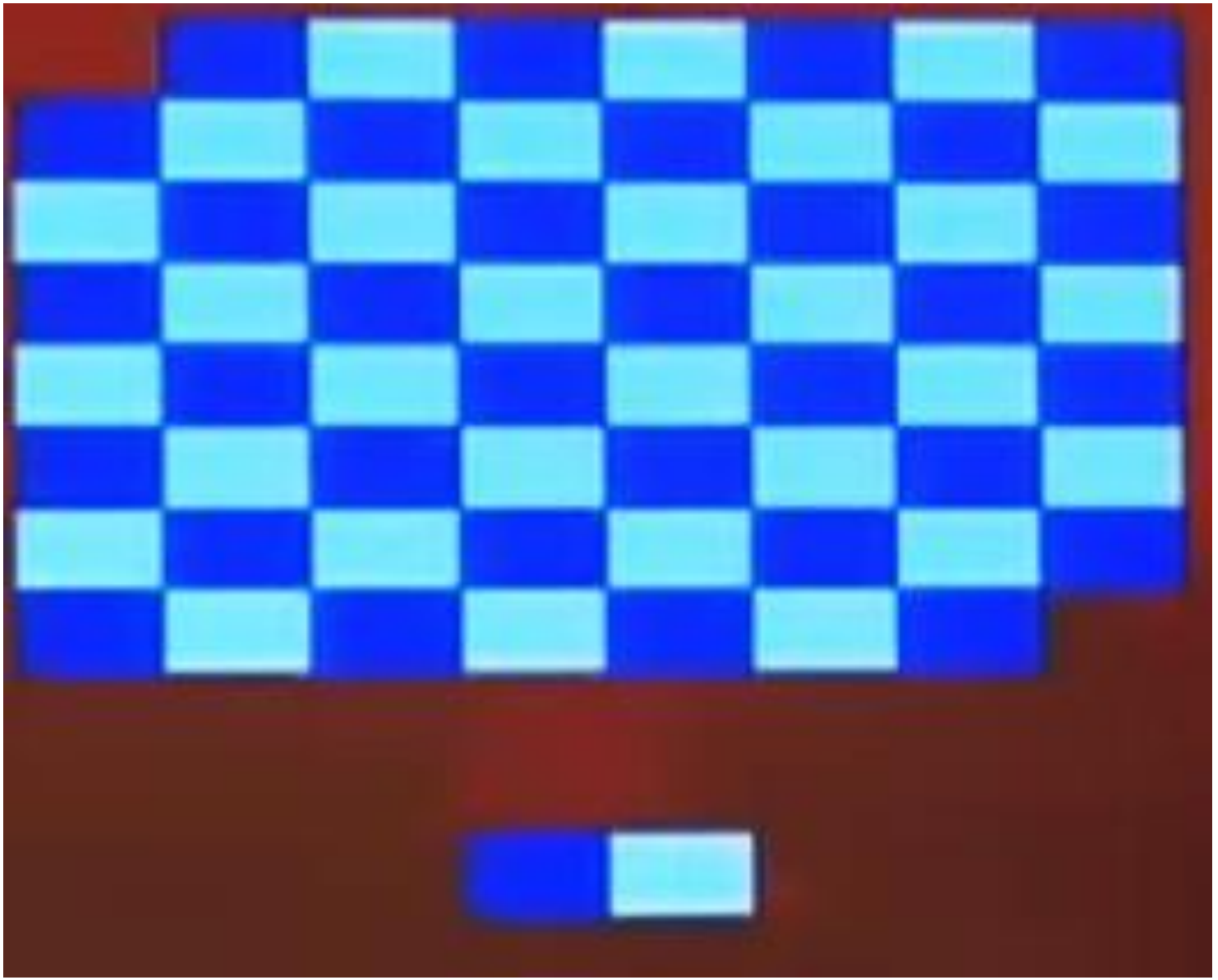

```
if i <= j then
    m := i;
else
    m := j;
```

```
if i <= j then
    m := i;
else
    m := j;
```

$$(m \leq i \text{ and } m \leq j) \text{ and } (m = i \text{ or } m = j)$$

# ELSE PART

$$(m = i \text{ or } m = j) \text{ and } (m \leq j \text{ and } m \leq j)$$

# ELSE PART

(i > j)

m = j;

(m = i or m = j) and (m ≤ j and m ≤ j)

# ELSE PART

(i > j)

m = j;

(m = i or m = j) and (m ≤ j and m ≤ j)

(i>j) and (j = i or j = j) and (j ≤ i and j ≤ j)

# ELSE PART

(i > j)

m = j;

(m = i or m = j) and (m ≤ j and m ≤ j)

(i>j) and (j = i or j = j) and (j ≤ i and j ≤ j)

(i>j) and (true) and (j ≤ i and true)

# ELSE PART

(i > j)

m = j;

(m = i or m = j) and (m ≤ j and m ≤ j)

(i>j) and (j = i or j = j) and (j ≤ i and j ≤ j)

(i>j) and (true) and (j ≤ i and true)

(i>j) and (j ≤ i)

# ELSE PART

- (i > j)

**m = j;**

**(m = i or m = j) and (m ≤ j and m ≤ j)**

**(i>j) and (j = i or j = j) and (j ≤ i and j ≤ j)**

**(i>j) and (true) and (j ≤ i and true)**

**(i>j) and (j ≤ i)**

**(i>=j)**

# IF PART

```
(i <= j)
m = i;
```

# IF PART

(i <= j)

m = i;

(m = i or m = j) and (m ≤ i and m ≤ i)

# IF PART

(i <= j)

m = i;

(m = i or m = j) and (m ≤ i and m ≤ i)

(i ≤ j) and (i = i or i = j) and (i ≤ i and i ≤ j)

# IF PART

(i <= j)

m = i;

(m = i or m = j) and (m ≤ i and m ≤ i)

(i ≤ j) and (i = i or i = j) and (i ≤ i and i ≤ j)

(i ≤ j) and (true) and (true and i ≤ j)

# IF PART

(i <= j)

m = i;

(m = i or m = j) and (m ≤ i and m ≤ i)

(i ≤ j) and (i = i or i = j) and (i ≤ i and i ≤ j)

(i ≤ j) and (true) and (true and i ≤ j)

(i ≤ j) and (i ≤ j)

# IF PART

(i <= j)

m = i;

(m = i or m = j) and (m ≤ i and m ≤ i)

(i ≤ j) and (i = i or i = j) and (i ≤ i and i ≤ j)

(i ≤ j) and (true) and (true and i ≤ j)

(i ≤ j) and (i ≤ j)

(i ≤ j)