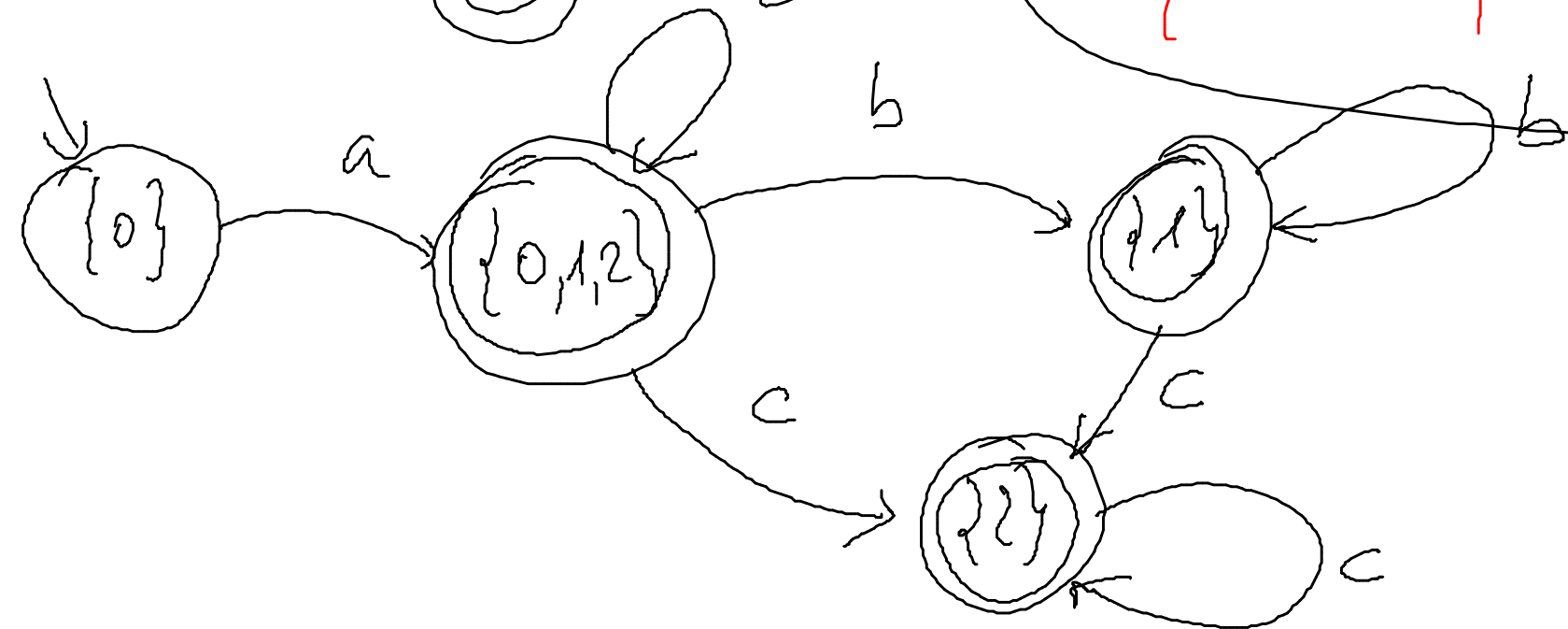


$$L = \{ a^m b^m c^k \mid m > 0, m, k \geq 0 \}$$

$$U \{ a^m c^k \mid m > 0, k \geq 0 \}$$

non-
i

recursion



$$\begin{aligned}
 S &\rightarrow A \mid B \\
 A &\rightarrow aaCb \mid aA \mid aAb \\
 B &\rightarrow aCbb \mid Bb \mid aBb \\
 C &\rightarrow c \mid cC
 \end{aligned}$$
~~$$S \rightarrow A C B$$~~
~~$$A \rightarrow aa \mid aA$$~~
~~$$B \rightarrow b \mid Bb$$~~
~~$$C \rightarrow c \mid cC$$~~

$$S^0 = \{\}$$

$$S^1 = \{\}$$

$$S^2 = \{\}$$

$$S^3 = \{\underline{aacb}, acbb\}$$

$$A^0 = \{\}$$

$$A^1 = \{\}$$

$$A^2 = \{aacb\}$$

$$A^3 = \{aacb, aaccb, aacab, aacab\}$$

$$B^0 = \{\}$$

$$B^1 = \{\}$$

$$B^2 = \{acbb\}$$

$$B^3 = \dots$$

$$C^0 = \{\}$$

$$C^1 = \{c\}$$

$$C^2 = \{c, cc\}$$

$$C^3 = \dots$$

$$(n, m)$$

$$(n, m)$$

$$(n-2, m)$$

$$(n-4, m)$$

$$(\emptyset, m)$$

$$(1, m)$$

n pari

n dispari

$$f(n, m) =$$

$$3 * m$$

$$\text{se } m = 0$$

$$1 + 3 * m$$

$$\text{se } m = 1$$

$$1 + f(n-2, m)$$

$$\text{se } m > 1$$

$$f(n, m) = m + 3m$$

$$\underbrace{f(m, m) = m + 3m}_{\text{up mod}} \Rightarrow f(m+2, m) = (m+2) + 3m$$

$$f(m+2, m) = \{ \text{def } f, 3^{\circ} \text{ case} \}$$

$$2 + f(m, m) = \{ \text{up. mod} \}$$

$$2 + m + 3m = \{ \text{calc} \}$$
$$m+2 + 3m$$

let rec f l x y = match l with
[] → []

| w :: ws when w = x → y :: f ws x y
| w :: ws when w < x → w :: f ws x y []