$(a \cup b.c)^*.(a \cup \backslash e)$ →

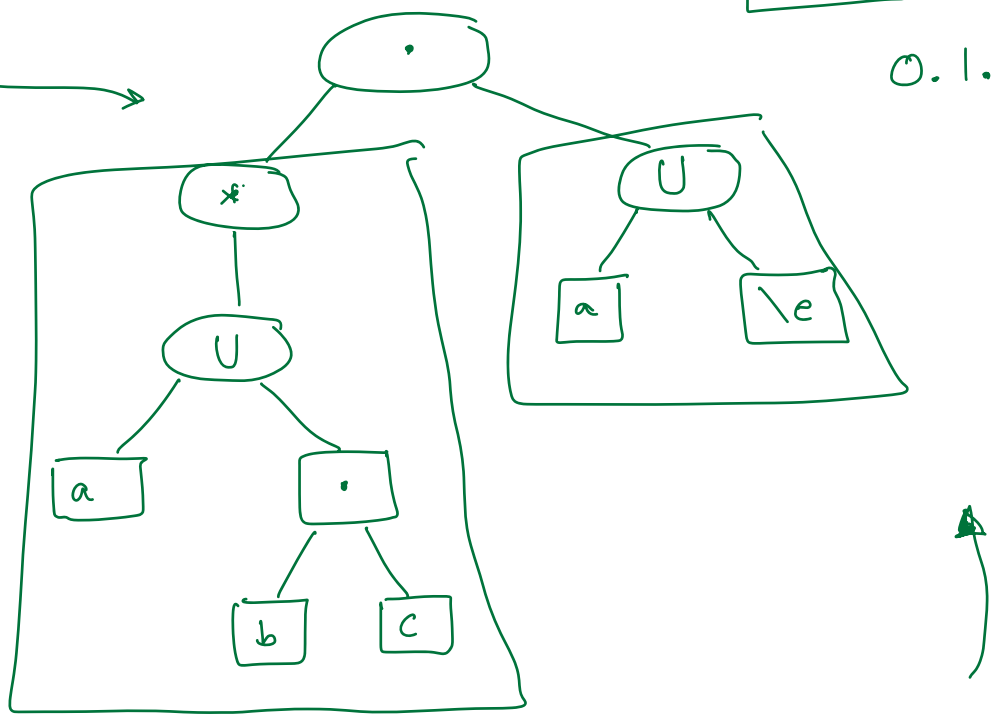
Any string over $\{a, .., z, 0, .., 9\}$ with alphabetical symbol as the first char.

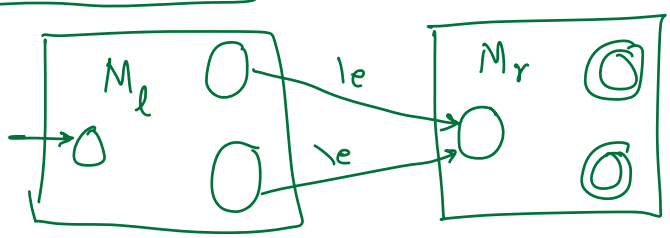
a12

0

010

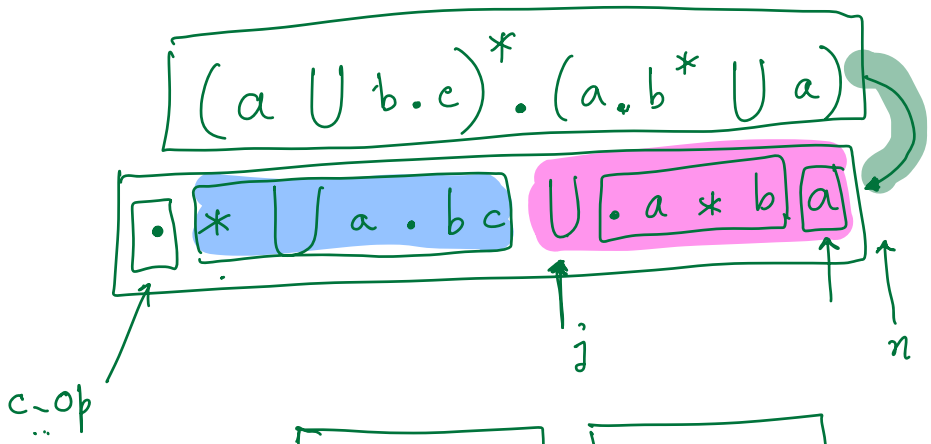
0.1.0

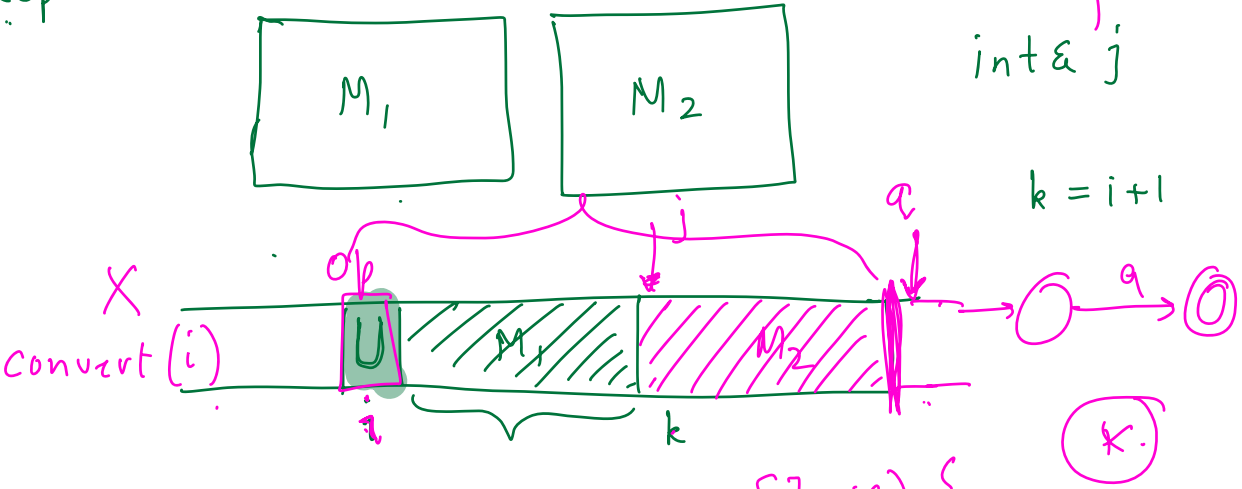




$\Sigma = \{a, b, c1, ac, 1\}$ ↓ remove ε-moves

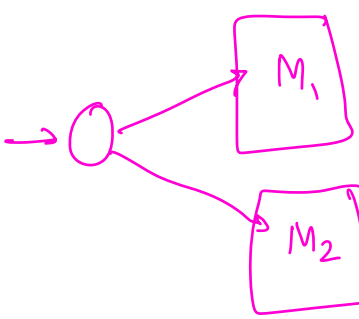
$(a \cup (b.c))$ $a \cup b.c$





k = i+1

```
pair convert (int i, char[] X) {
    if (X[i] is an input symbol)
        M ← NFA that accepts {X[i]};
        k ← i+1;
        return (M, k) }
    op ← X[i];
    if (op is binary) {
→ (p), M1 ← Convert (i+1, X);
→ (q), M2 ← Convert (p, X);
    M ← combine (op, M1, M2)
```



return [illegible]

}

else { // Kleene star

}