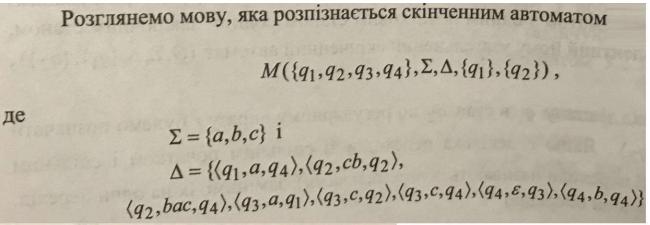
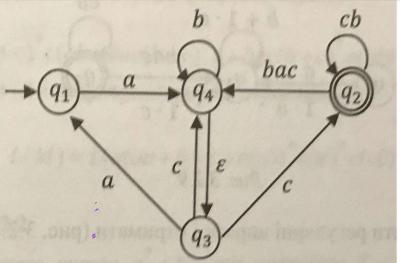
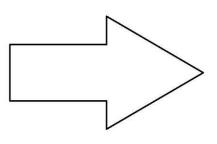
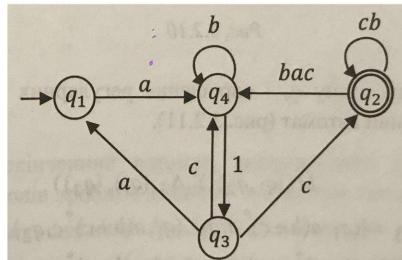
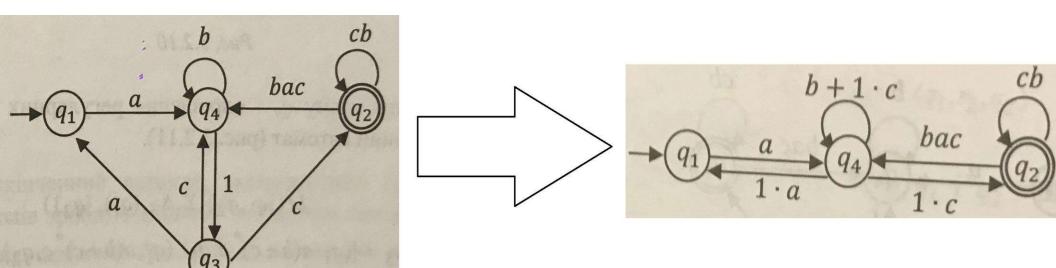
Формування регулярного виразу для заданого скінченного автомату. **Приклад:**

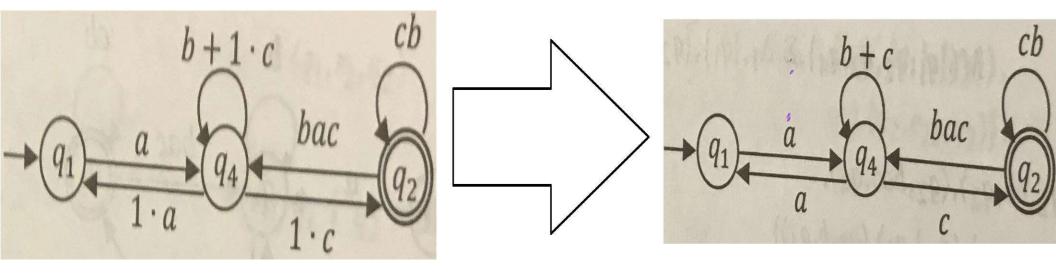








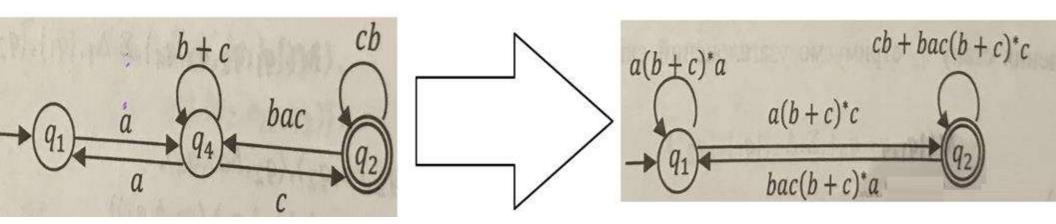


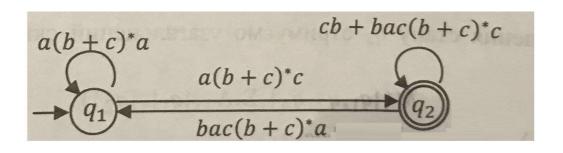


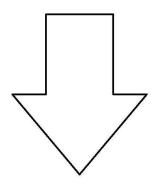
$$M(\{q_{1},q_{2}\},\Sigma,\Delta_{3},\{q_{1}\},\{q_{2}\}),$$

$$\Delta_{3} = \{\langle q_{1},a(b+c)^{*}a,q_{1}\rangle,\langle q_{1},a(b+c)^{*}c,q_{2}\rangle,$$

$$\langle q_{2},bac(b+c)^{*}a,q_{1}\rangle,\langle q_{2},cb+bac(b+c)^{*}c,q_{2}\rangle,\}.$$







Отже, мова L(M) задається регулярним виразом

$$(a(b+c)^*a)^*a(b+c)^*c(cb+bac(b+c)^*c+bac(b+c)^*a(a(b+c)^*a)^*a(b+c)^*c)^*.$$

* вираз можна спростити