Laboratorium 10 - Aleksandra Mazur

Zadanie 1

(a) $x := x + y$

(b) $y := y + 2z$

(c) $x := 3x + z$

(d) $z := y - z$

Zadanie 1a

$A = \{a, b, c, d\}$

$\mathcal{D} = sym\{\{(a,b), (a,c), (b,d), (c,d)\}\} \cup |_A$

$\mathcal{D} = \{(a,b), (b,a), (a,c), (c,a), (b,d), (d,b), (c,d), (d,c), (a,a), (b,b), (c,c), (d,d)\}$

$I = A^2 \setminus \mathcal{D} = \{(a,d), (d,a), (b,c), (c,b)\}$

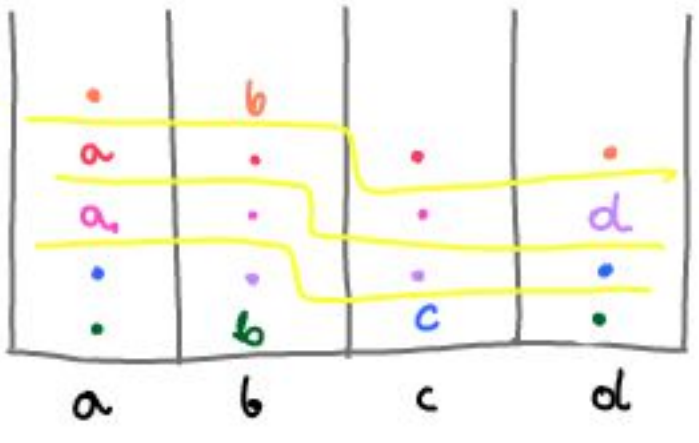
Zadanie 1b

$\omega = baadcb$

$t = [\omega]_{\equiv_I} = [\langle b, a, a, d, c, b\rangle]_{\equiv_I}$

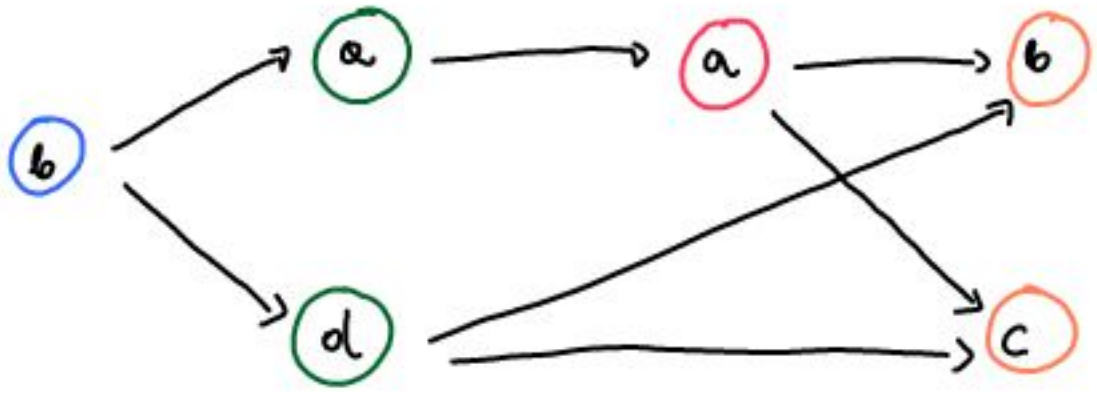
Zadanie 1c

$\omega = b\ a\ a\ d\ c\ b$



$t = (b)(ad)(a)(bc)$

Zadanie 1d



Zadanie 2

(a) $x \leftarrow y + z$

(b) $y \leftarrow x + w + y$

(c) $x \leftarrow x + y + v$

(d) $w \leftarrow v + z$

(e) $v \leftarrow x + v + w$

(f) $z \leftarrow y + z + v$

Zadanie 2a

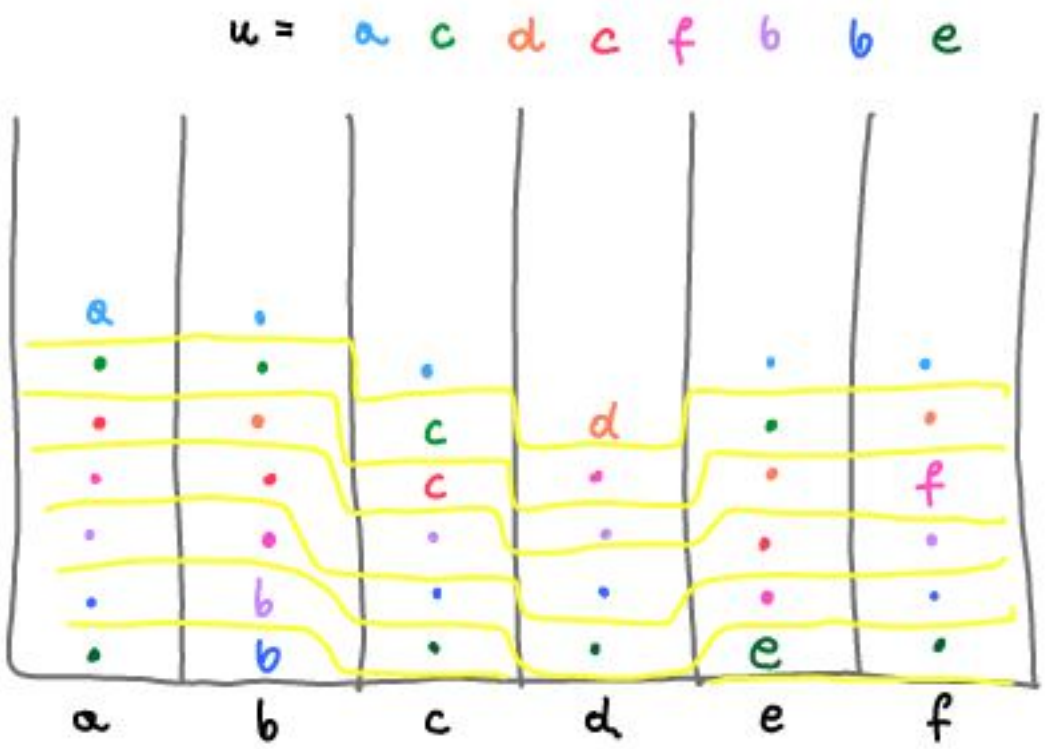
$A = \{a, b, c, d, e, f\}$

$D = \text{sym}\{(a,b), (a,c), (a,e), (a,f), (b,c), (b,d), (b,f), (c,e), (d,e), (d,f), (e,f)\} \cup I_A$

$= \{(a,b), (b,a), (a,c), (c,a), (a,e), (e,a), (a,f), (f,a), (b,c), (c,b), (b,d), (d,b), (b,f), (f,b), (c,e), (e,c), (d,e), (e,d), (d,f), (f,d), (e,f), (f,e), (a,a), (b,b), (c,c), (d,d), (e,e), (f,f)\}$

$I = A^2 \setminus D = \{(a,d), (d,a), (b,e), (e,b), (c,d), (d,c), (c,f), (f,c)\}$

Zadanie 2b



$t = (ad)(c)(cf)(be)(b)$

Zadanie 2c