

Programmierung WS 18

Hausaufgaben - Blatt 11

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Gruppe 12

HA 2

(i)

$$\sigma_1 = \{Z = a\}$$

$$\sigma_2 = \{Y = g(X, a)\}$$

\Rightarrow Occur Failure, $MGU(X, g(a, g(X, a)))$ existiert nicht.

(ii)

$$\sigma_1 = \{X = a\}$$

\Rightarrow Clash Failure, $MGU(b, a)$ existiert nicht.

(iii)

$$\sigma_1 = \{Z = h(Y)\}$$

$$\sigma_2 = \{X = a\}$$

$$\sigma_3 = \{Y = h(a)\}$$

\Rightarrow Clash Failure, $MGU(h(a), a)$ existiert nicht.

(iv)

$$\sigma_1 = \{W = h(X)\}$$

$$\sigma_2 = \{Y = a\}$$

$$\sigma_3 = \{Z = g(a, a)\}$$

$$\sigma_4 = \{X = b\}$$

$$\sigma = \sigma_4 \circ \sigma_3 \circ \sigma_2 \circ \sigma_1 = \{W = h(b), Y = a, Z = g(a, a), X = b\}$$

(v)

$$\sigma_1 = \{X = Y\}$$

$$\sigma_2 = \{Y = a\}$$

$$\sigma = \sigma_2 \circ \sigma_1 = \{X = a, Y = a\}$$

HA 4

HA 6