Modelos de Computación. Práctica 2.

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Resumen

Realización de al menos cuatro computaciones manuales para cada uno de los L-programas analizados en clase de teoría.

1. Función Pseudo-Identidad

1.1. Computación para la entrada X = 1

$$(1, < X = 1, Y = 0 >) \sim (2, < X = 0, Y = 0 >) \sim (3, < X = 0, Y = 1 >) \sim (4, < X = 0, Y = 1 >)$$

1.2. Computación para la entrada X=0

$$(1, < X = 0, Y = 0 >) \sim (2, < X = 0, Y = 0 >) \sim (3, < X = 0, Y = 1 >) \sim (4, < X = 0, Y = 1 >)$$

1.3. Computación para la entrada X=2

$$(1, < X = 2, Y = 0 >) \sim (2, < X = 1, Y = 0 >) \sim (3, < X = 1, Y = 1 >) \sim (1, < X = 1, Y = 1 >) \sim (2, < X = 0, Y = 1 >) \sim (3, < X = 0, Y = 2 >) \sim (4, < X = 0, Y = 2 >)$$

1.4. Computación para la entrada X=3

$$(1, < X = 3, Y = 0 >) \sim (2, < X = 2, Y = 0 >) \sim (3, < X = 2, Y = 1 >) \sim (1, < X = 2, Y = 1 >) \sim (2, < X = 1, Y = 1 >) \sim (3, < X = 1, Y = 2 >) \sim (1, < X = 1, Y = 2 >) \sim (2, < X = 0, Y = 2 >) \sim (3, < X = 0, Y = 3 >) \sim (4, < X = 0, Y = 3 >)$$

Ejercicios de prácticas. MC

2. Función Identidad

2.1. Computación para la entrada X = 0

$$(1, < X = 0, Z = 0, Y = 0 >) \sim (2, < X = 0, Z = 0, Y = 0 >) \sim (3, < X = 0, Z = 1, Y = 0 >) \sim (8, < X = 0, Z = 1, Y = 0 >)$$

2.2. Computación para la entrada X = 1

$$(1, < X = 1, Z = 0, Y = 0 >) \sim (4, < X = 1, Z = 0, Y = 0 >) \sim (5, < X = 0, Z = 0, Y = 0 >) \sim (6, < X = 0, Z = 0, Y = 1 >) \sim (7, < X = 0, Z = 1, Y = 1 >) \sim (1, < X = 0, Z = 1, Y = 1 >) \sim (2, < X = 0, Z = 1, Y = 1 >) \sim (3, < X = 0, Z = 2, Y = 1 >) \sim (8, < X = 0, Z = 2, Y = 1 >)$$

2.3. Computación para la entrada X=2

$$\begin{array}{c} (1, < X = 2, Z = 0, Y = 0 >) \sim (4, < X = 2, Z = 0, Y = 0 >) \sim (5, < X = 1, Z = 0, Y = 0 >) \sim \\ (6, < X = 1, Z = 0, Y = 1 >) \sim (7, < X = 1, Z = 1, Y = 1 >) \sim (1, < X = 1, Z = 1, Y = 1 >) \sim \\ (4, < X = 1, Z = 1, Y = 1 >) \sim (5, < X = 0, Z = 1, Y = 1 >) \sim (6, < X = 0, Z = 1, Y = 2 >) \sim \\ (7, < X = 0, Z = 2, Y = 2 >) \sim (1, < X = 0, Z = 2, Y = 2 >) \sim (2, < X = 0, Z = 2, Y = 2 >) \sim \\ (3, < X = 0, Z = 3, Y = 2 >) \sim (8, < X = 0, Z = 3, Y = 2 >) \end{array}$$

2.4. Computación para la entrada X=3

$$\begin{array}{c} (1, < X = 3, Z = 0, Y = 0 >) \sim (4, < X = 3, Z = 0, Y = 0 >) \sim (5, < X = 2, Z = 0, Y = 0 >) \sim \\ (6, < X = 2, Z = 0, Y = 1 >) \sim (7, < X = 2, Z = 1, Y = 1 >) \sim (1, < X = 2, Z = 1, Y = 1 >) \sim \\ (4, < X = 2, Z = 1, Y = 1 >) \sim (5, < X = 1, Z = 1, Y = 1 >) \sim (6, < X = 1, Z = 1, Y = 2 >) \sim \\ (7, < X = 1, Z = 2, Y = 2 >) \sim (1, < X = 1, Z = 2, Y = 2 >) \sim (4, < X = 1, Z = 2, Y = 2 >) \sim \\ (5, < X = 0, Z = 2, Y = 2 >) \sim (6, < X = 0, Z = 2, Y = 3 >) \sim (7, < X = 0, Z = 3, Y = 3 >) \sim \\ (1, < X = 0, Z = 3, Y = 3 >) \sim (2, < X = 0, Z = 3, Y = 3 >) \sim (3, < X = 0, Z = 4, Y = 3 >) \sim \\ (8, < X = 0, Z = 4, Y = 3 >) \end{array}$$