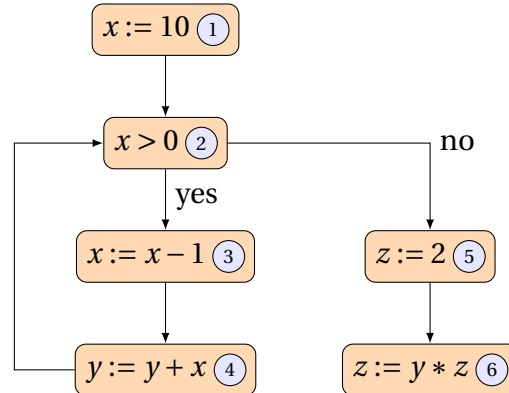# Data flow analysis: live variables

Static Program Analysis and Constraint Solving
Master's Degree in Formal Methods in Computer Science
Year 2021/22

Assume the following program:

1. Write the data flow equations:

In_1 = Out_1 =
In_2 = Out_2 =
In_3 = Out_3 =
In_4 = Out_4 =
In_5 = Out_5 =
In_6 = Out_6 =

2. Solve the equations by using Kleene's ascending chain:

	Start	Iter. 1	Iter. 2	Iter. 3	Iter. 4	Iter. 5	Iter. 6	Iter. 7	Iter. 8
In_1									
In_2									
In_3									
In_4									
In_5									
In_6									
Out_1									
Out_2									
Out_3									
Out_4									
Out_5									
Out_6									