

Process Model 2 - Behaviour Documentation

This task simulates, that no business process model documentation was created or that the documentation is too outdated to be utilized during the anomaly detection task. This is a common scenario for which process analysts typically need to fallback to a basic comparison-based strategy. For this strategy a process execution which is reported as anomalous is manually compared to previous process executions which were reported as benign (i.e. non-anomalous). Here we simulate this situation by providing only an overview from a range of sufficiently diverse benign business process execution traces. You will need to analyse these traces to get an overview on the typical benign behaviour for this process model. Subsequently you can compare the respective behaviour with the process execution traces which were reported as anomalous to identify anomalies and the related execution events.

Benign execution traces for Process Model 2

<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Sue Duration: 110</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Tom Duration: 81</div></div> <div>→</div> <div><div>E4</div><div>D</div><div>Resource: Sue Duration: 112</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Sue Duration: 128</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Sue Duration: 31</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>	<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Tom Duration: 113</div></div> <div>→</div> <div><div>E3</div><div>B</div><div>Resource: Tom Duration: 110</div></div> <div>→</div> <div><div>E4</div><div>F</div><div>Resource: Tom Duration: 118</div></div> <div>→</div> <div><div>E5</div><div>G</div><div>Resource: Sue Duration: 20</div></div> <div>→</div> <div><div>E6</div><div>END</div><div>Resource: NA Duration: NA</div></div>
<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Pat Duration: 21</div></div> <div>→</div> <div><div>E3</div><div>B</div><div>Resource: Pat Duration: 23</div></div> <div>→</div> <div><div>E4</div><div>F</div><div>Resource: Pat Duration: 60</div></div> <div>→</div> <div><div>E5</div><div>G</div><div>Resource: Sue Duration: 113</div></div> <div>→</div> <div><div>E6</div><div>END</div><div>Resource: NA Duration: NA</div></div>	<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Joe Duration: 32</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Tom Duration: 24</div></div> <div>→</div> <div><div>E4</div><div>E</div><div>Resource: Pat Duration: 168</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Joe Duration: 83</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Sue Duration: 69</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>
<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Joe Duration: 65</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Tom Duration: 118</div></div> <div>→</div> <div><div>E4</div><div>E</div><div>Resource: Joe Duration: 54</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Joe Duration: 82</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Tom Duration: 23</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>	<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Tom Duration: 26</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Pat Duration: 75</div></div> <div>→</div> <div><div>E4</div><div>D</div><div>Resource: Joe Duration: 84</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Tom Duration: 54</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Joe Duration: 63</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>
<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Joe Duration: 60</div></div> <div>→</div> <div><div>E3</div><div>B</div><div>Resource: Joe Duration: 71</div></div> <div>→</div> <div><div>E4</div><div>F</div><div>Resource: Joe Duration: 32</div></div> <div>→</div> <div><div>E5</div><div>G</div><div>Resource: Sue Duration: 115</div></div> <div>→</div> <div><div>E6</div><div>END</div><div>Resource: NA Duration: NA</div></div>	<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Joe Duration: 111</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Tom Duration: 37</div></div> <div>→</div> <div><div>E4</div><div>E</div><div>Resource: Tom Duration: 136</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Joe Duration: 112</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Tom Duration: 28</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>
<div><div>E1</div><div>START</div><div>Resource: NA Duration: NA</div></div> <div>→</div> <div><div>E2</div><div>A</div><div>Resource: Pat Duration: 20</div></div> <div>→</div> <div><div>E3</div><div>C</div><div>Resource: Sue Duration: 29</div></div> <div>→</div> <div><div>E4</div><div>D</div><div>Resource: Joe Duration: 144</div></div> <div>→</div> <div><div>E5</div><div>F</div><div>Resource: Pat Duration: 114</div></div> <div>→</div> <div><div>E6</div><div>G</div><div>Resource: Joe Duration: 110</div></div> <div>→</div> <div><div>E7</div><div>END</div><div>Resource: NA Duration: NA</div></div>	