Be an Investigator
Description of Investigation and Student Report

You are going to help a scientist evaluate different experiments. Each experiment has a temperature range. The temperature has to stay within that range, or the experiment is invalid. There are three different experiments. The scientist has given you a temperature range for each experiment and three temperature readings. She would like you to tell her if any of the experiments are invalid and, if so, why.

Information

**Experiment 1**
Temperature Range: $90^\circ F < \text{temperature} < 101^\circ F$
Readings: $91^\circ F$, $98^\circ F$, $101^\circ F$

**Experiment 2**
Temperature Range: $80^\circ F \leq \text{temperature} \leq 90^\circ F$
Readings: $80^\circ F$, $86^\circ F$, $90^\circ F$

**Experiment 3**
Temperature Range: $\text{temperature} > 90^\circ F$
Readings: $90^\circ F$, $95^\circ F$, $105^\circ F$
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The following experiments are invalid.

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The reason the experiments are invalid is:

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