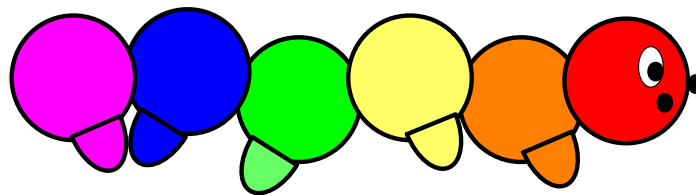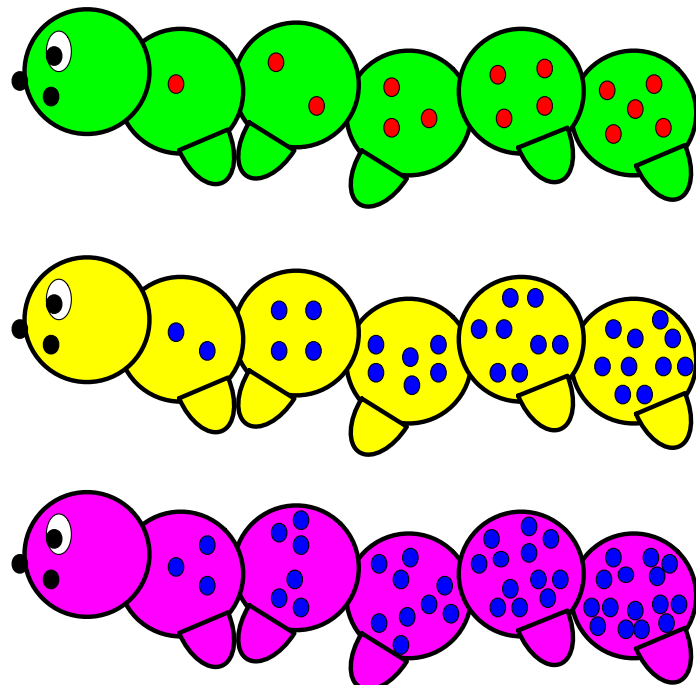## Caterpillar patterns: Solution

The end segment should be a purple colour to match the rainbow pattern. Violet comes next. Every wondered why we split the rainbow in to 7 colours? You can split it in to any number (we used 6). It was Isaac Newton who chose 7: because the Ancient Greeks thought 7 was a 'magic' number found in nature. Newton was interested in magic and thought the Greeks were right so he gave the rainbow 7 colours, splitting purple in two.

These caterpillar's spots have patterns of counting in 1s, counting in 2's and counting in 3s.

Spotting patterns helps programmers write better programs.