A fractal is created in the following manner:

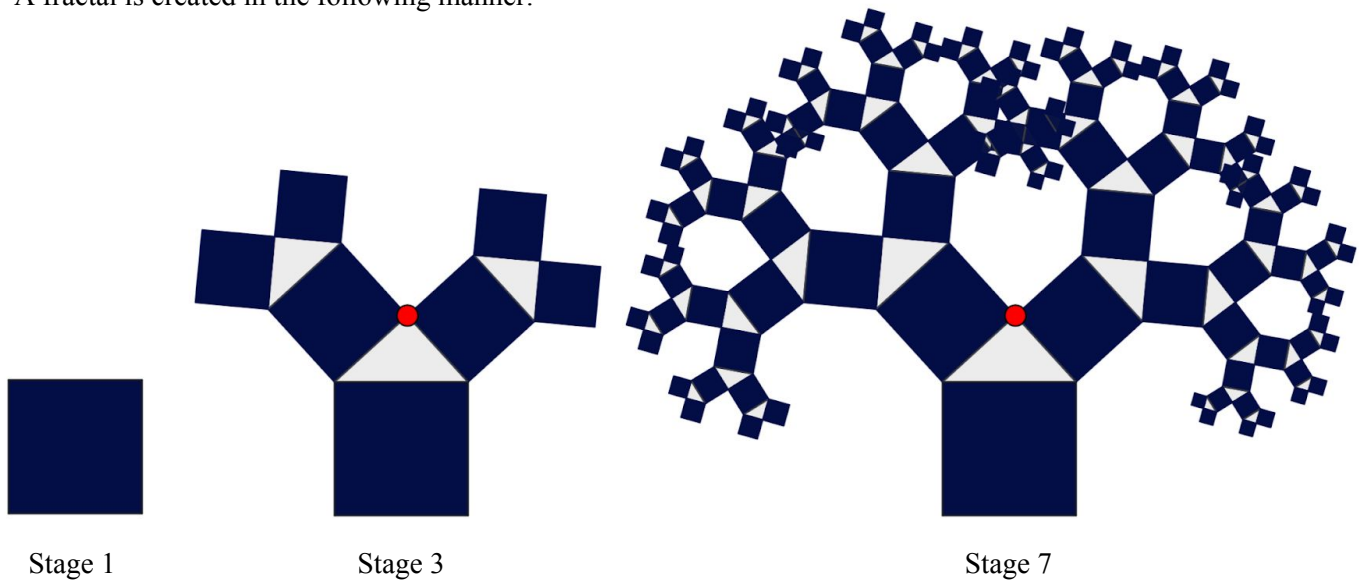Stage 1   Stage 3   Stage 7

How many rectangles will Stage 50 include? Remember to use the flag format!