A fractal is created in the following manner:

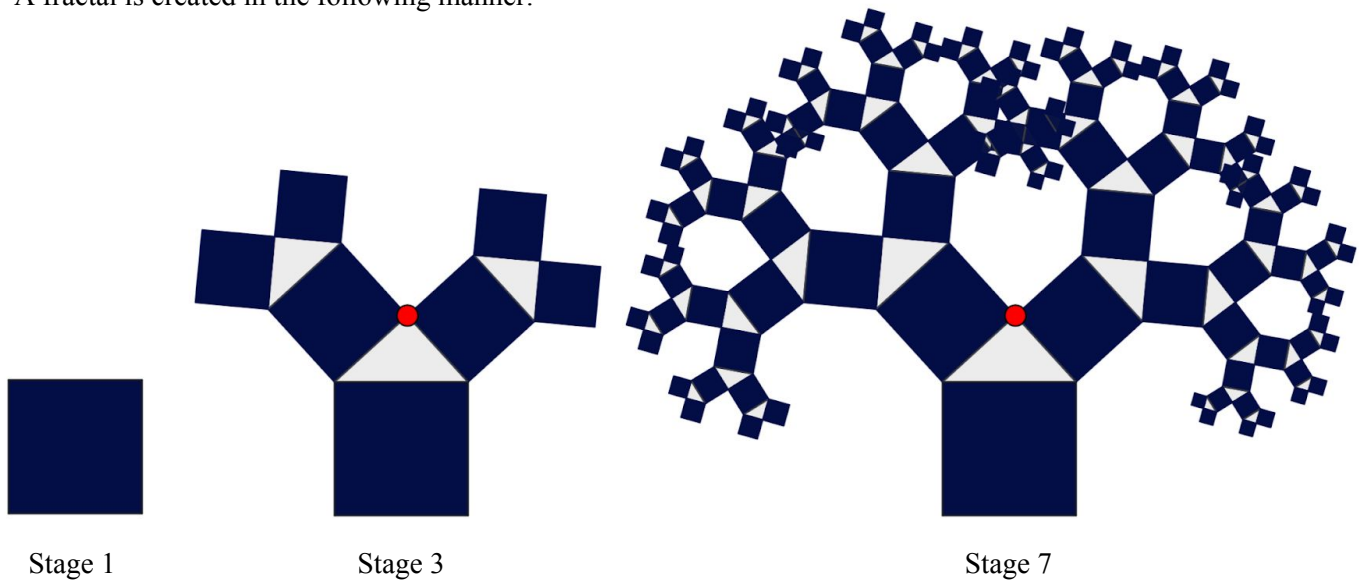Stage 1   Stage 3   Stage 7

If the square in Stage 1 has an area of 70368744177664, what is the area of the Stage 25 tree? Remember to use the flag format!