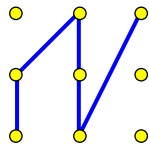
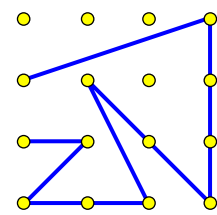




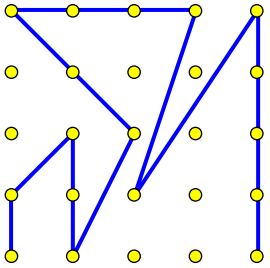
2×2 ; 2 steps



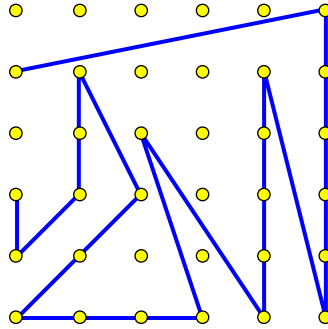
3×3 ; 4 steps



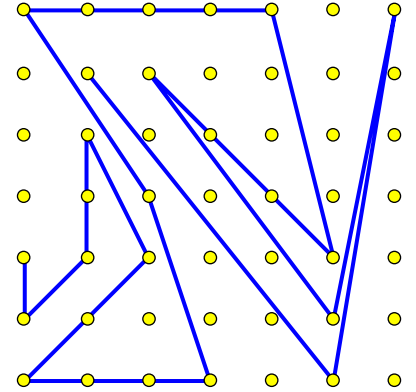
4×4 ; 7 steps



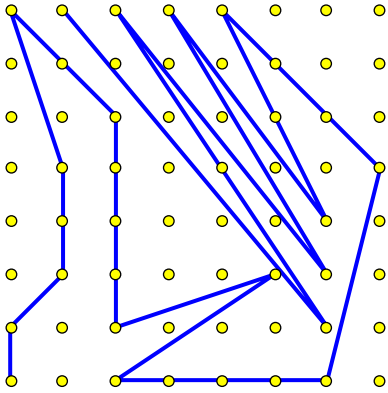
5×5 ; 9 steps



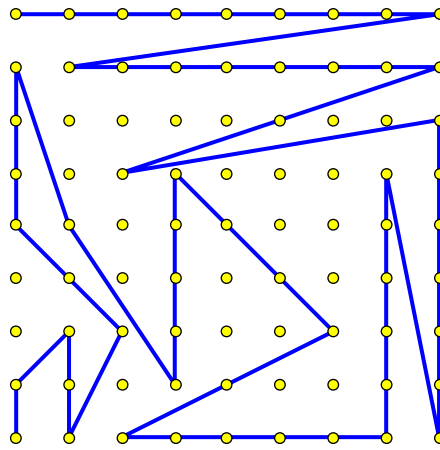
6×6 ; 12 steps



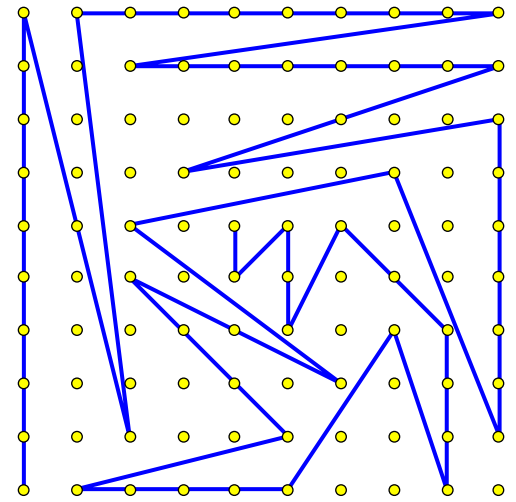
7×7 ; 15 steps



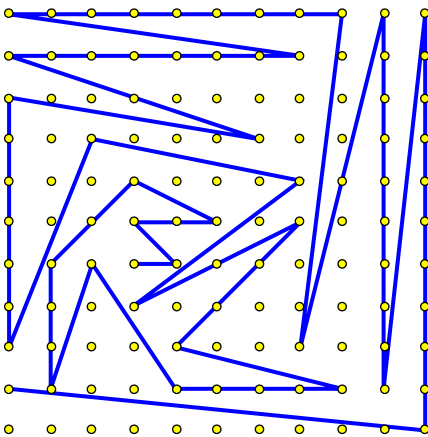
8×8 ; 17 steps



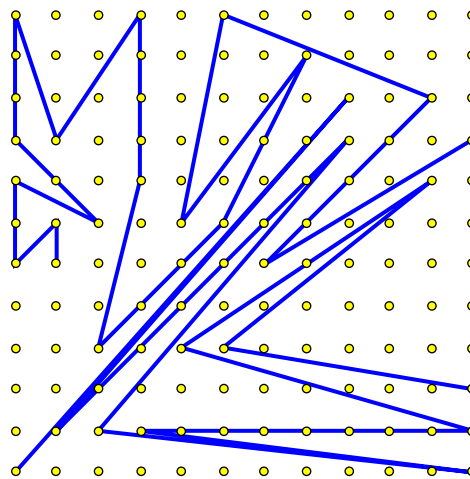
9×9 ; 20 steps



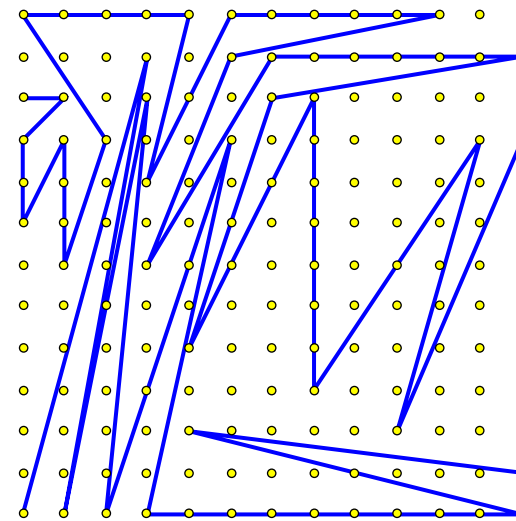
10×10 ; 24 steps



11×11 ; 27 steps



12×12 ; 29 steps



13×13 ; at least 32 steps

Out[77]=