$$A(N) = \begin{cases} N^2 & \text{si } N < 10 \\ f(N) & \text{si } N \geq 10 \end{cases}$$

$$f(N) = \begin{cases} N^2 - 1 & \text{si } N < 10 \\ S(N-9) + 82 & \text{si } N \geq 10 \end{cases}$$

$$S(N) = \begin{cases} N^2 - 1 & \text{si } N < 10 \\ S(N-9) + 81 & \text{si } N \geq 10 \end{cases}$$