This is incomputable. Assume for the sake of contradiction that it is computable, so that there exists a Turing machine  $M^5$  that computes  $L^5$ . We can use  $M^5$  to decide the halting problem. The halting problem asks whether a Turing machine M halts on input x. When given such an M and input x, we construct a new Turing machine  $M_1$  that for four random inputs excluding x, we make  $M_{new}$  output 1. For input x, we make it output 1 if M outputs either 1 or 0. We now compute  $M_{new}$  using  $M^5$ . If and only if  $M^5$  outputs 1, then M halts on x. This decides the halting problem, which we know to be incomputable. Thus,  $L^5$  is incomputable.