$$f_1(n) = (n - h(n)) \ll 1 + 1$$
$$f_2(n) = \neg h(2n) \,\&\, ((n \ll 1) \gg 1)$$
$$f_3(n) = (n \,\&\, \neg(1 \ll g(n))) \ll 1 + 1$$

Where

$$g(n) = \lfloor \log_2(n) \rfloor$$
$$h(n) = n \,\&\, (1 \ll g(n))$$