```
module MoveLEDs(
    input Dir, Shift, clk,
    output [7:0] Q
    );
   wire [7:0] a, b;
    //Dir = Shift left
    // ~Dir = shift right
    assign a[0] = (b[7] \& Dir) | (b[1] \& ~Dir);
    assign a[1] = (b[0] \& Dir) | (b[2] \& ~Dir);
    assign a[2] = (b[1] \& Dir) | (b[3] \& ~Dir);
    assign a[3] = (b[2] \& Dir) | (b[4] \& ~Dir);
    assign a[4] = (b[3] \& Dir) | (b[5] \& ~Dir);
    assign a[5] = (b[4] \& Dir) | (b[6] \& ~Dir);
    assign a[6] = (b[5] \& Dir) | (b[7] \& ~Dir);
    assign a[7] = (b[6] \& Dir) | (b[0] \& ~Dir);
    FDRE #(.INIT(1'b1)) FF 0 (.C(clk), .CE(Shift), .D(a[0]), .Q(b[0]));
    FDRE #(.INIT(1'b0)) FF 7 0 [7:1] (
    .C({7\{clk\}}),
    .CE(\{7\{Shift\}\}),
    .D(\{a[7:1]\}),
    .Q({b[7:1]})
    );
    assign Q = b;
endmodule
```