

```

module UserBuffer(s0, s1, press, a ,b, c ,d, reset);
    input a,b,c,d, reset;
    output s0, s1, press;
    reg s0, s1, press;
    wire pressin;
    reg pressing;
    or orAll(pressin, !a, !b, !c, !d, reset);
    always
        begin
            if(reset) begin
                s0 <= 1'b0;
                s1 <= 1'b0;
                press <= 1'b0;
            end
            else if(pressin) begin
                if(~pressing) begin
                    pressing <= 1'b1;
                    if(~a) begin
                        s1 <= 1'b0;
                        s0 <= 1'b0;
                        press <= 1'b1;
                    end
                    else if(~b) begin
                        s1 <= 1'b0;
                        s0 <= 1'b1;
                        press <= 1'b1;
                    end
                    else if(~c) begin
                        s1 <= 1'b1;
                        s0 <= 1'b0;
                        press <= 1'b1;
                    end
                    else if(~d) begin
                        s1 <= 1'b1;
                        s0 <= 1'b1;
                        press <= 1'b1;
                    end
                end
            end else begin
                pressing <= 1'b0;
            end
        end
endmodule

```