```
library ieee;
use ieee.std_logic_1164.all;
entity laskuri is
 port(CLK, CLR:in std_logic; Q: out std_logic_vector(3 downto 0) );
end laskuri;
architecture toiminta of laskuri is
begin
process (CLK, CLR)
variable i:integer range 0 to 9;
begin
 if CLK'event and CLK='0' then
  if(CLR='1') then i:=0;
  else
   if i<9 then i:=i+1;
   else i:=0;
   end if;
  end if;
  case i is
   when 0 \Rightarrow Q = 0000;
   when 1 => Q<="0001";
   when 2 => Q<="0010";
   when 3 \Rightarrow Q = 0011;
   when 4 => Q<="0100";
   when 5 => Q<="0101";
   when 6 => Q<="0110";
   when 7 => Q<="0111";
   when 8 => Q<="1000";
   when 9 => Q<="1001";
  end case;
 end if;
end process;
end toiminta;
```