

```
1: library STD;
2: library IEEE;
3: use IEEE.std_logic_1164.all;
4:
5: entity nor2 is
6: port(
7:     in1      : in  std_logic;
8:     in2      : in  std_logic;
9:     out1     : out std_logic
10: );
11: end nor2;
12:
13: architecture structural of nor2 is
14: begin
15:     out1 <= in1 nor in2;
16: end structural;
```