Multimedia SoC Design
Homework #1 Report

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Example #1

The else branch is never executed, why?

Ans:

Because we set the initial value v_ = 0, value v_ will always be different from old_value.

So the else branch will never be executed.

Example #3

Did you notice that some parts are unchanged/changed if we change the ALWAYS_BLOCK flag? Please explain why they are changed/unchanged

Ans:

If we change the ALWAYS_BLOCK flag, the Nonblockings will be replace by Blocking.

Because when the ALWAYS_BLOCK flag was changed to true, the blocking condition will be always fulfilled, and the result will be reading blocking for all input.

But if we set ALWAYS_BLOCK flag false, whether the blocking condition fulfill is depend on Empty() function, so the result may be blocking or nonblocking.