



Pseudocode

Start

Read gray[j] (j = 1 ... N), bin[j] (j = 1 ... N), button, i

i := 0

if button == 1 **then**

Repeat

if i == 0 **then**

 bin[i] := gray[i]

 i := i + 1

otherwise

if (bin[i-1] == 1 **AND** gray[i] := 1) **OR** (bin[i-1] == 0 **AND** gray[i] := 0)

 bin[i] := 0

 i := i + 1

otherwise

 bin[i] := 1

 i := i + 1

Write bin[i]

Until i < j

Otherwise

Repeat

if i == 0 **then**

 gray[i] := bin[i]

 i := i + 1

otherwise

if bin[i-1] == 1 **then**

if bin[i] == 1

 gray[i] := 0

 i := i + 1

otherwise

 gray[i] := 1

 i := i + 1

otherwise

 gray[i] := bin[i]

 i := i + 1

Write gray[i]

Until i < j

Stop