

An Event-B Specification of Q2R
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MACHINE Q2R

REFINES Q2

SEES Q2.ctx

VARIABLES

pos

q

INVARIANTS

inv1 : $q \in 1..n$

EVENTS

Initialisation

begin

act1 : $pos := 0$

act2 : $q := 1$

end

Event Search $\hat{=}$

Refines Search

when

grd1 : $s(q) = x$

with

p : $p = q$

then

act1 : $pos := q$

end

Event Search1 $\hat{=}$

Which is convergent

when

grd1 : $s(q) \neq x$

grd2 : $q \neq n$

then

act1 : $q := q + 1$

end

VARIANT

$n - q$

END