

An Event-B Specification of Q2
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MACHINE Q2

A simple search example

SEES Q2.ctx

VARIABLES

pos

INVARIANTS

inv1 : $pos \in 0..n$

inv2 : $pos \neq 0 \Rightarrow s(pos) = x$

EVENTS

Initialisation

begin

act1 : $pos := 0$

end

Event Search $\hat{=}$

any

p

where

grd1 : $p \in 1..n$

grd2 : $s(p) = x$

then

act1 : $pos := p$

end

END