

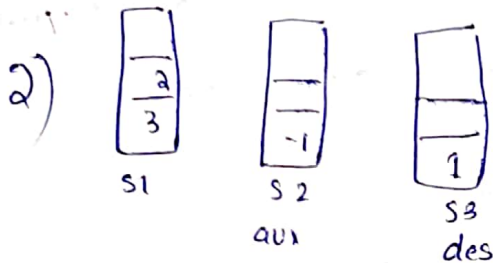
1)

$$1 \cdot 3 = 1$$

$$s1 \leftrightarrow dest$$

$s1 \cdot peak = 1$
 $des \cdot peak = -1$

if $des \cdot peak = -1$
 $\rightarrow s1 \cdot pop$
 $\rightarrow des \cdot push$

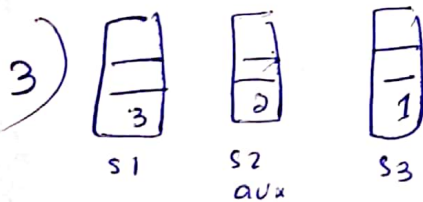


$$2 \cdot 3 = 2$$

$$s1 \leftrightarrow aux$$

$s1 \cdot peak = 2$
 $aux \cdot peak = -1$

if $aux \cdot peak = -1$
 $s1 \cdot pop$
 $aux \cdot push$

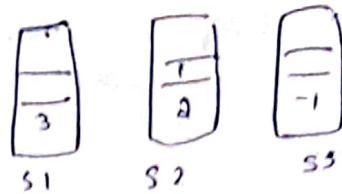


$$3 \cdot 3 = 0$$

$$aux \leftrightarrow des$$

$aux \cdot peak = 2$
 $des \cdot peak = 1$

if $aux \cdot peak > des \cdot peak$
 $des \cdot pop$
 $aux \cdot push$



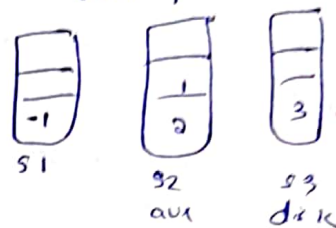
4)

$$4 \cdot 3 = 1$$

$$s1 \leftrightarrow des$$

$s1 \cdot peak = 3$
 $des \cdot peak = -1$

if $des \cdot peak = -1$
 $s1 \cdot pop$
 $des \cdot push$

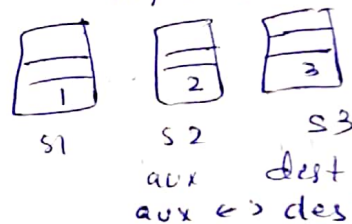


5

$$5 \cdot 3 = 2$$

$$s1 \leftrightarrow aux$$

$s1 \cdot peak = -1$
 $aux \cdot peak = 1$
 $aux \cdot pop()$
 $s1 \cdot push()$

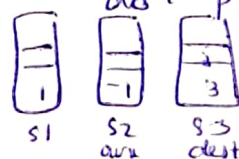


6

$$6 \cdot 3 = 0$$

$$aux \leftrightarrow des$$

$aux \cdot peak = 2$
 $des \cdot peak = 3$
 $aux \cdot peak < des \cdot peak$
 $aux \cdot pop()$
 $des \cdot push$

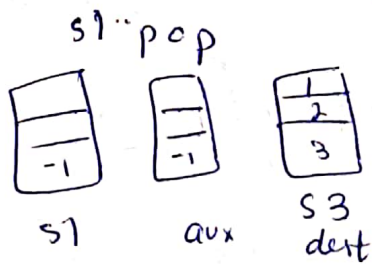


7

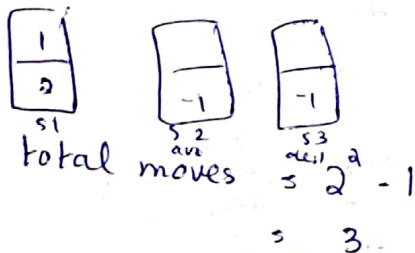
$$7 \cdot 3 = 1$$

$$s1 \leftrightarrow des$$

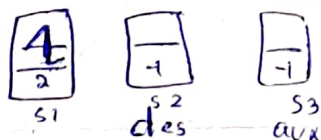
$s1 \cdot peak = 1$
 $des \cdot peak = 2$
 $s1 \cdot pop$
 $des \cdot push$



For even
 $n = 2$

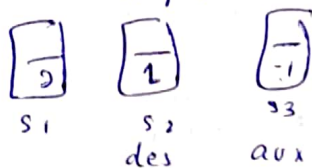


\rightarrow change aux des



1 $1 \cdot 3 = 1$
 $s1 \leftrightarrow des$
s1 peak = 1
des peak = -1

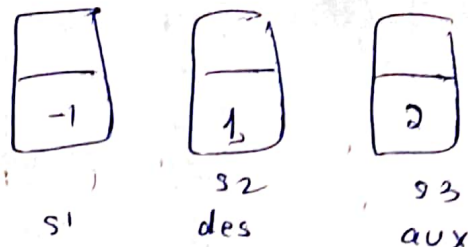
des peak = -1
s1 pop
des push



2 $2 \cdot 3 = 2$
 $s1 \leftrightarrow aux$

s1 peak = 2
aux peak = -1

aux peak = -1
s1 pop
aux push



3 $3 \cdot 3 = 0$
 $aux \leftrightarrow des$

if
aux peak = 2
des peak = 1

des peak < aux peak

des pop
aux push

