	A.	B.	C.	D.	E.
ancestor					

ancestor

IO
push
pop
NOP-C
nand
IO

A.

IO
push
pop
NOP-C
push
pop
NOP-C
nand
IO

B.

IO
push
pop
NOP-C
pop
NOP-C
push
nand
IO

C.

IO
push
pop
NOP-C
sub
NOP-B
swap
nand
IO

D.

IO
push
pop
NOP-C
NOP-X
NOP-X
NOP-X
nand
IO

E.

NOP-C
IO
push
push
pop
NOP-C
pop
nand
IO