10076 D → Two String Swaps

① a_i can be swapped with b_i & a_{a-i+1}

② b_i can be swapped with b_{n-i+1}

It is easy to see that a_i, b_i, a_{n-i+1}, b_{n-i+1} can exchange places with each other

Ex-

a	b	a	c	a	b	a	
b	a	c	a	b	a	a	

$\equiv$

a	a
b	a

$\equiv$

b	a
a	a

Similarly,

a	b	a	c	a	b	a
b	a	c	a	b	a	a

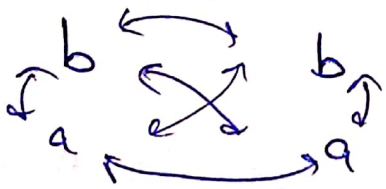
$\equiv$

a	b
a	a

$\equiv$

a	a
a	b

These 4 can interchange places with other 3



* Only string A can be modified during preprocess

Consider the 4 letters which can be interchanged

L_1 L_2
L_3 L_4

Cases :→ ① All the letters are different

x y
z m

⇒ preprocess → cnt += 2

change x → z (1)
y → m (1) > 2

② 3 letters are same, 1 different

x x ⇒ modify x → y (1)
x y ⇒ cnt += 1

③ 2 letters are same – Another 2 also same

x y or x y
x y y x

→ just interchanging is enough cnt = 0
→ no pre process

④ 2 letters same, other 2 different

i) x z or x z or y z or y x
y x x y x x z x

cnt + 1

ii) x x → Since only string A can be modified, we can't change either y → z or z → y & then interchange → not possi
y z

∴ x → y (1)
x → z (1) } cnt += 2