

Test Case 1:**INPUT:**

A C B C D A D A C A C C E E

OUTPUT:

MoveToFront E C A D B 33

Transpose C A D E B 31

Test Case 2:**INPUT:**

A B C D E D C B A E E E E

OUTPUT:

MoveToFront E A B C D 34

Transpose E A B C D 36

Test Case 3:**INPUT:**

A B C A B C A B C A B C A B C

OUTPUT:

MoveToFront C B A 36

Transpose B C A 30

Test Case 4:**INPUT:**

A B A B A B A B A B A B

OUTPUT:

MoveToFront B A 20

Transpose B A 20

Test Case 5:**INPUT:**

A A A A B B B B C C C C D D D D E E E E

OUTPUT:

MoveToFront E D C B A 35

Transpose D E C B A 44