

To rearrange a bookshelf system that is 3 tiers high by 4 shelves wide.

A	B	C	D
E	F	G	H
I	J	K	L

From

A	D	G	J
B	E	H	K
C	F	I	L

To

Shelf moving pattern

Moving from	Moving to
A	A
B	E
C	I
D	B
E	F
F	J
G	C
H	G
I	K
J	D
K	H
L	L

Moving Process to follow

Start	Move to
H	Table
K	H
I	K
C	I
G	C
Table	G

Start	Move to
B	Table
D	B
J	D
F	J
E	F
Table	E

Following the process above moves books from a horizontal system to a vertical system in minimum moves.