

कोडिंग-डिकोडिंग

Coding-Decoding

Basics & Concepts

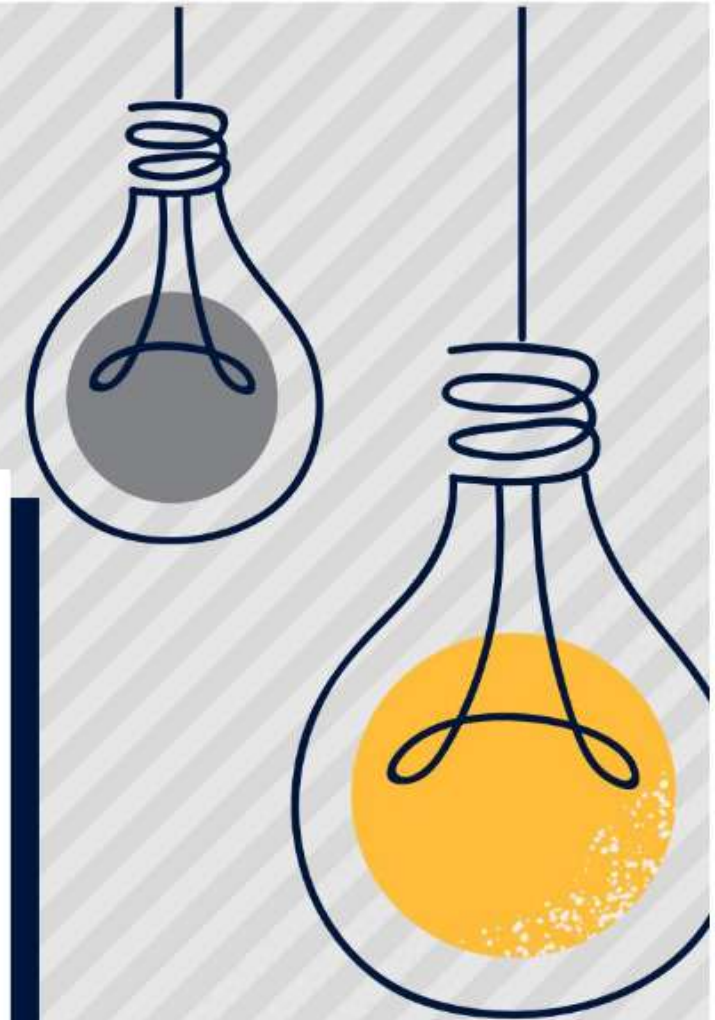
Pattern ✓

Method ✓

Thought process ✓

+ Example + pr





Patterns Types in coding

को डंग डको डंग में प्रकार

- Letter to Letter Coding / लैटर से लैटर की कोडिंग
- Letter to Number Coding / लैटर से नंबर की कोडिंग
- Letter to LSN
- Chinese Coding / चीनीज़ को डंग
- Substitution Coding / प्रतिस्थापन को डंग
- Matrix coding



Letter to Letter Coding

- ✓ First to First / पहले से पहले
- ✓ First to Last / पहले से आ खर तक
- ✓ Cross Coding / क्रॉस को डंग
- Sectional Coding(MIX) / सेक्शनल को डंग



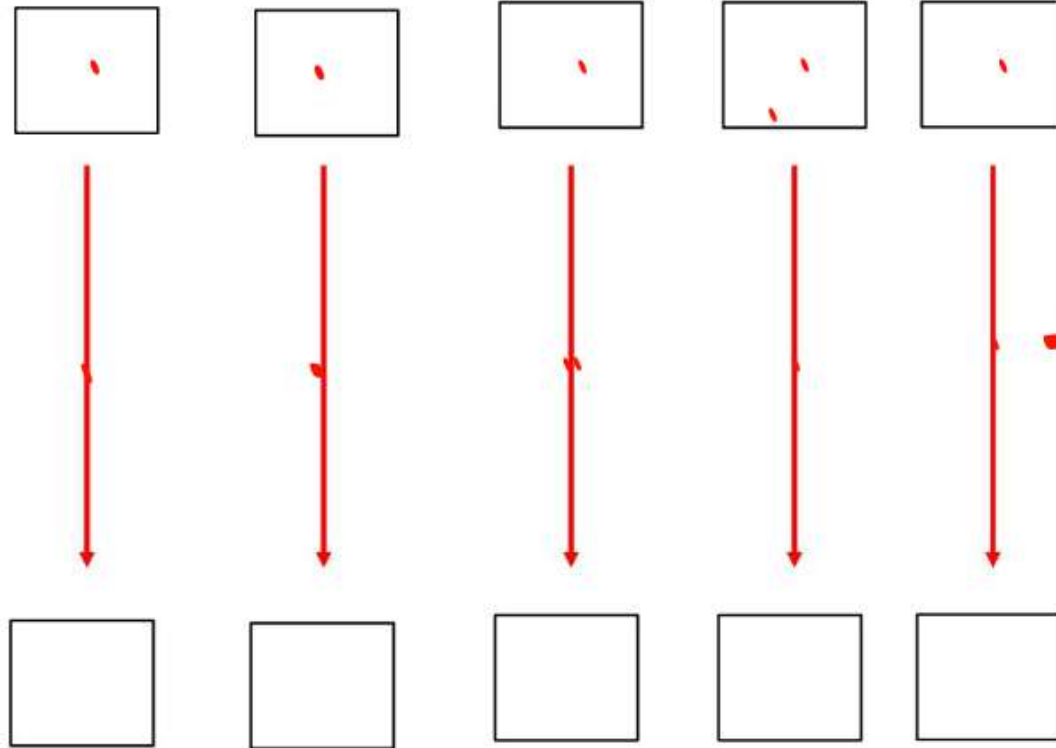
First to First / पहले से पहले



logic can directly Apply on given word or its opposite or its increasing / decreasing order.

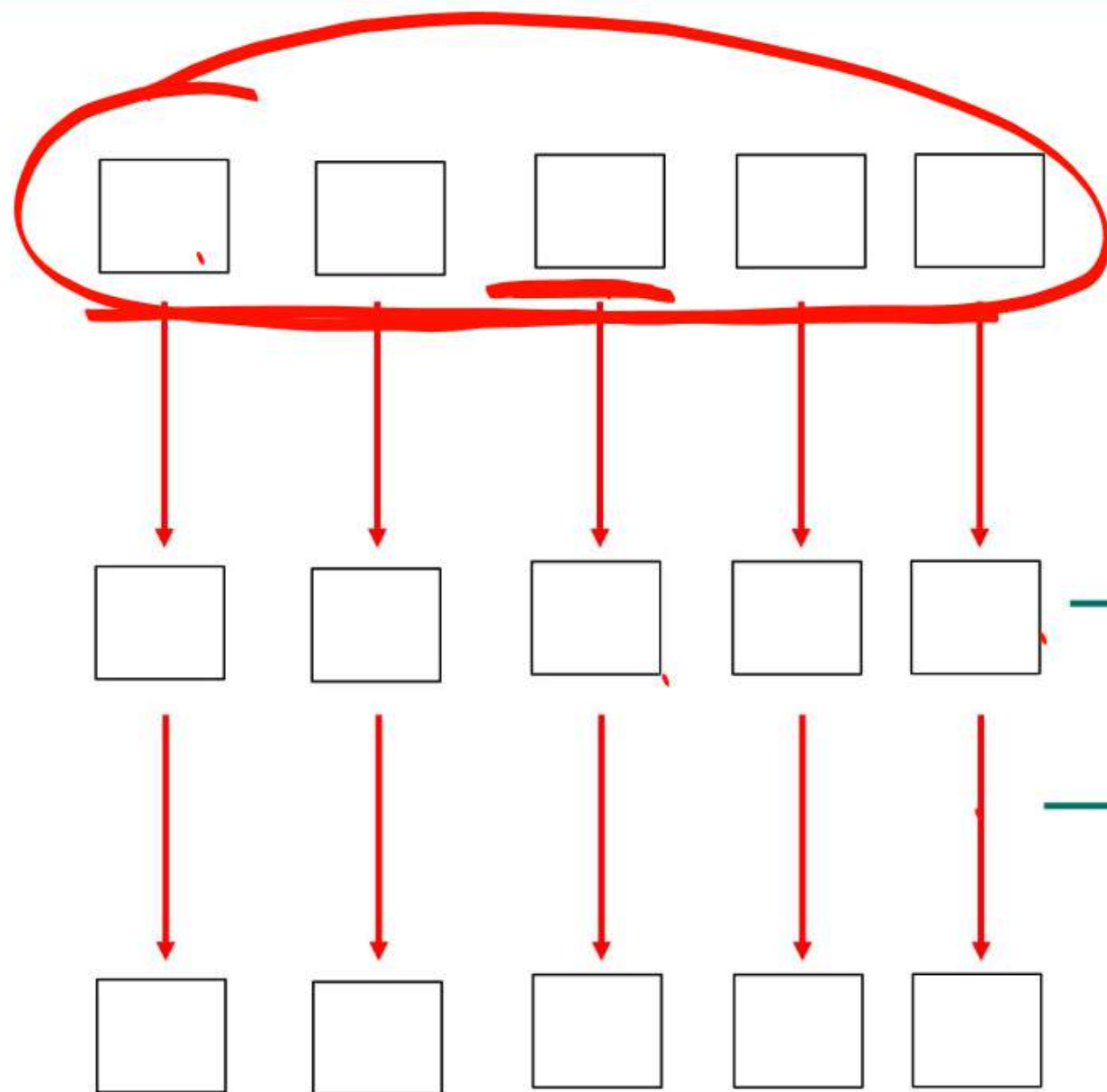


5 अक्षर



→ पहले से पहले
F to F ✓

(ii)



→ Opposities

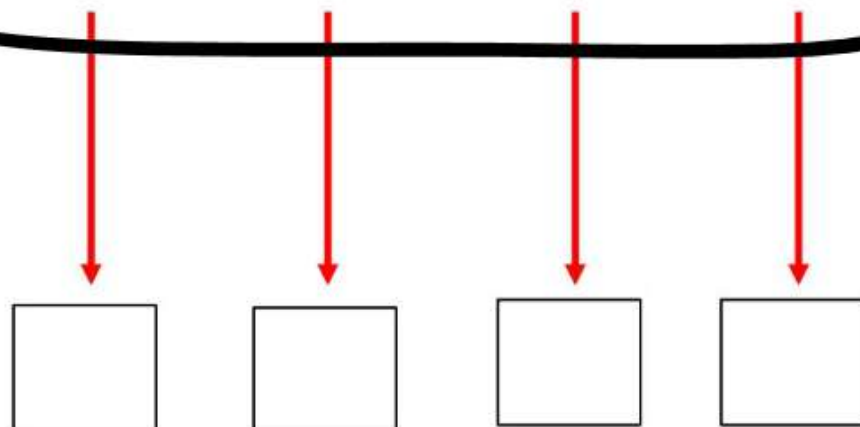
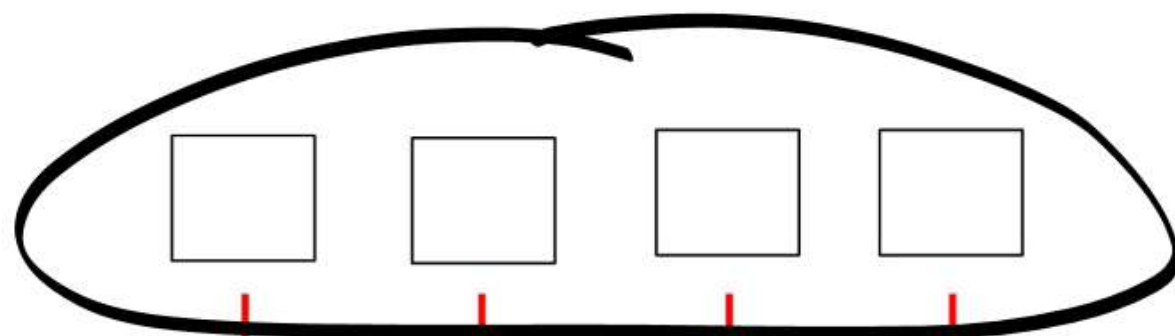
→ Logics

A R P Q
Z I K J
↓ ↓ ↓ ↓

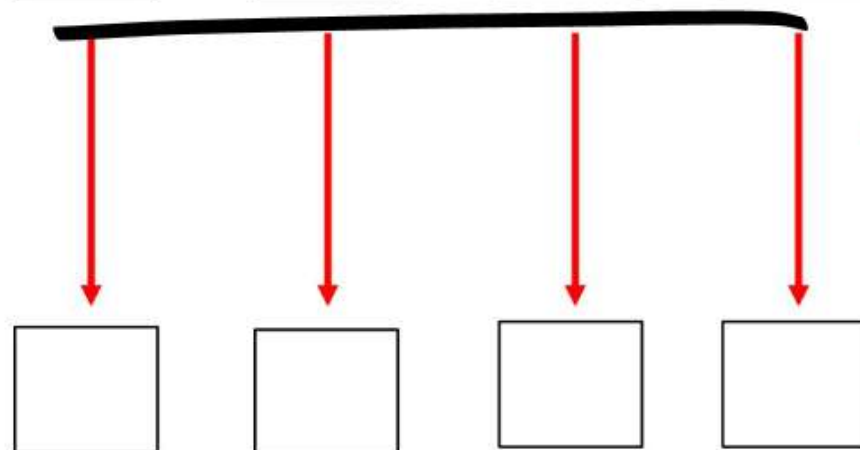
opp
A-Z
B-Y
C-X
D-W
E-V
F-U
G-T
H-S
I-R
J-Q
K-P
L-O
M-N
N-M
O-L
P-K
Q-J
R-I
S-H
T-G
U-F
V-E
W-D
X-C
Y-B
Z-A



(iii)



→ Increasing/decreasing



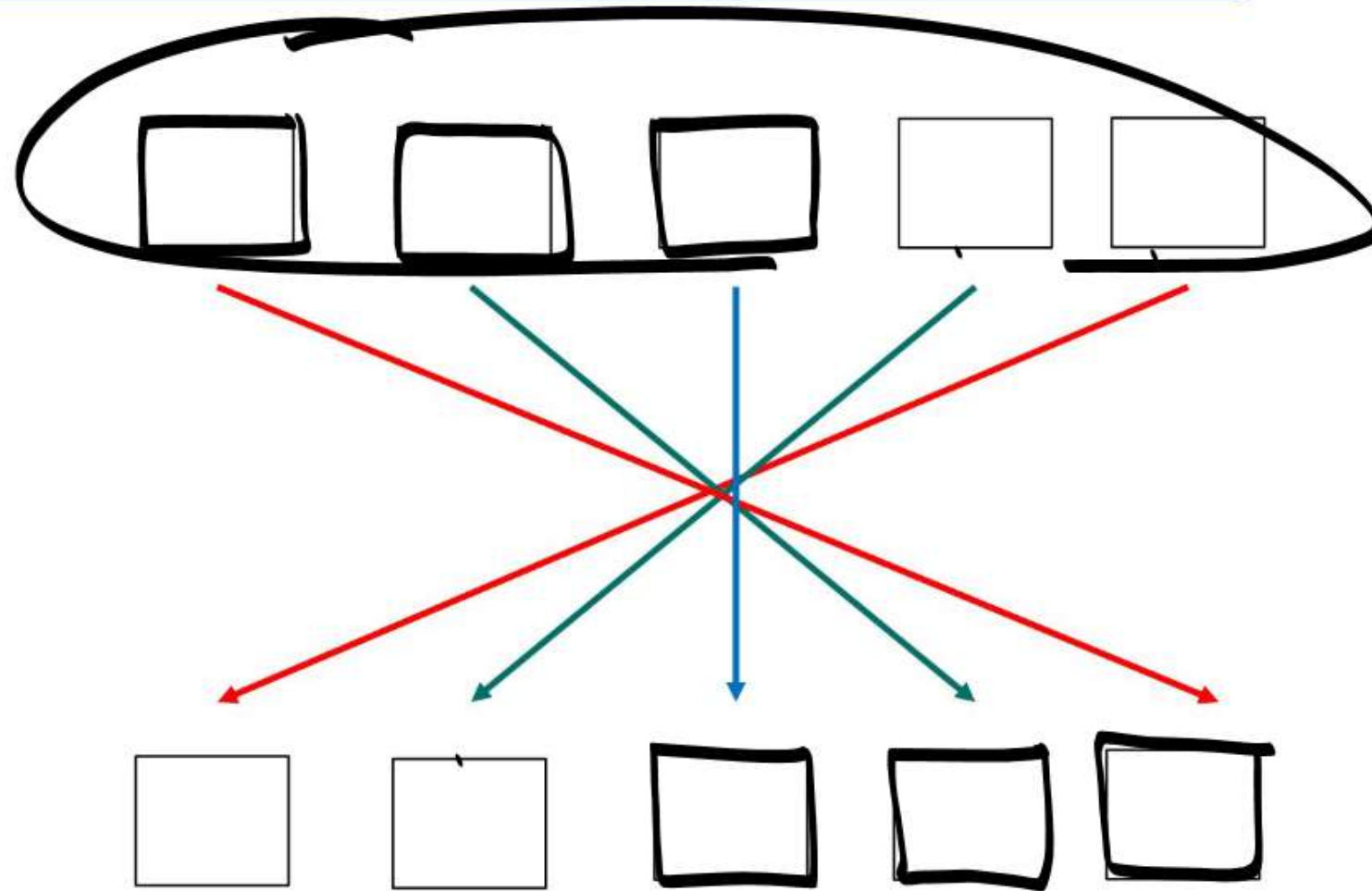
→ Logics

* FRONT

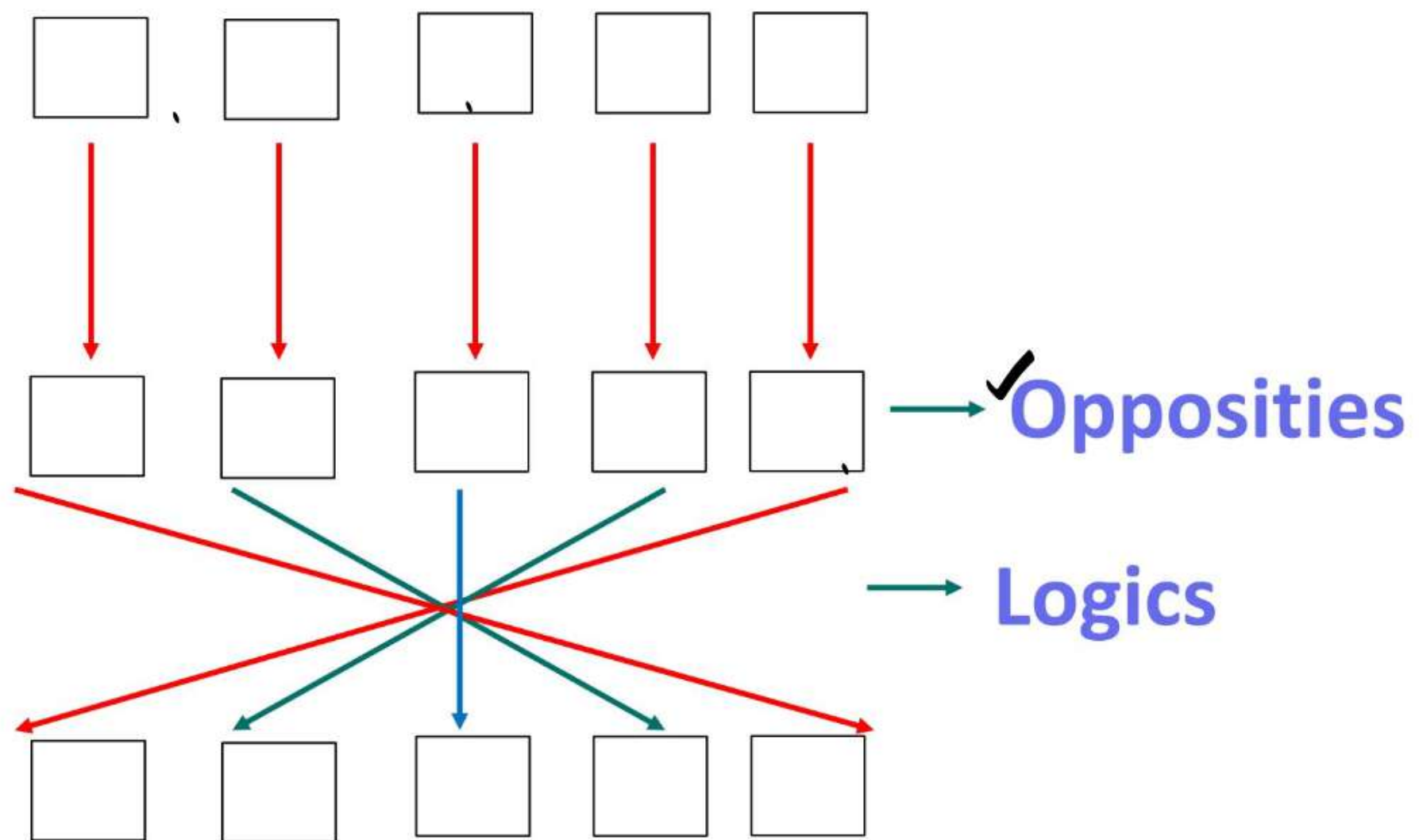
T Z O R T
↓ ↓ ↓ ↓ ↓

(increasing T)

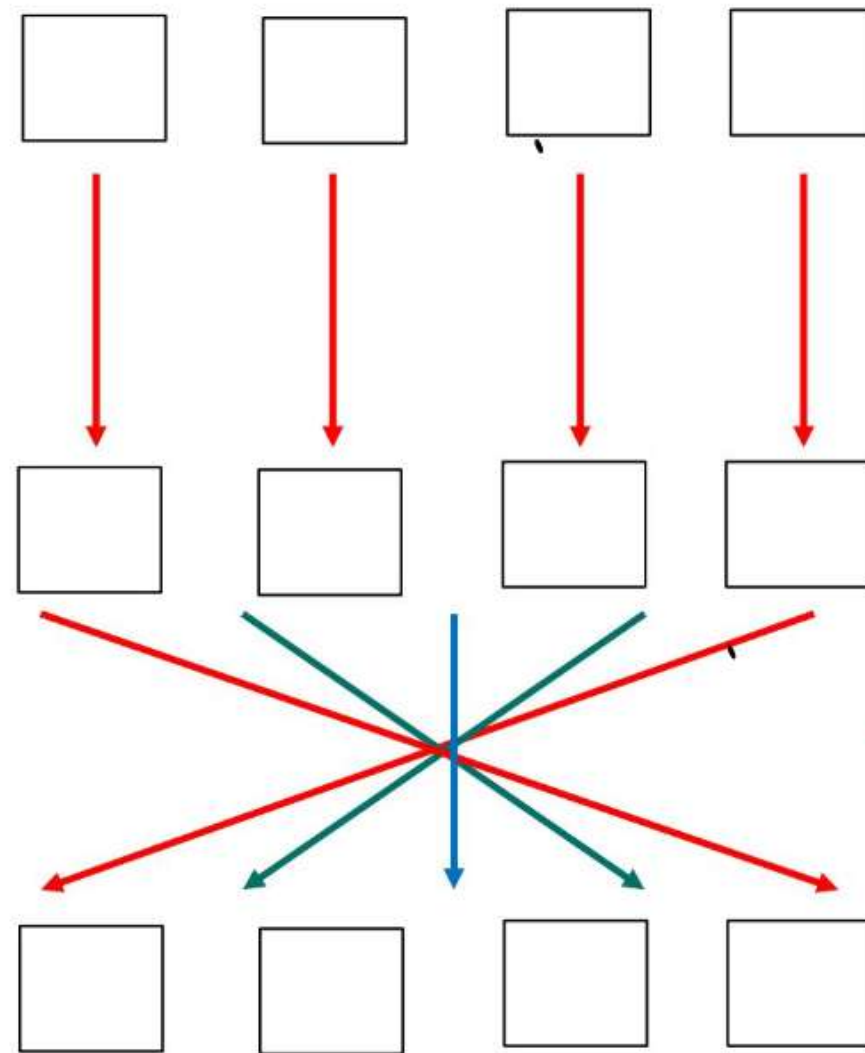
First to Last / पहले से आखिर



(ii)



(iii)



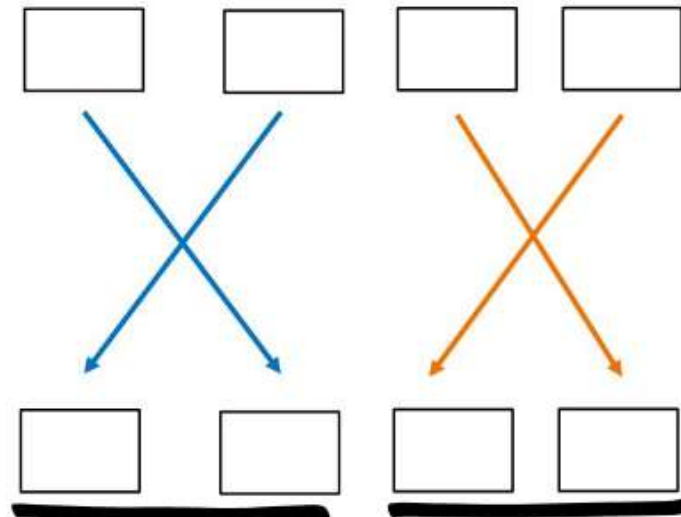
→ Increasing/decreasing

→ Logics

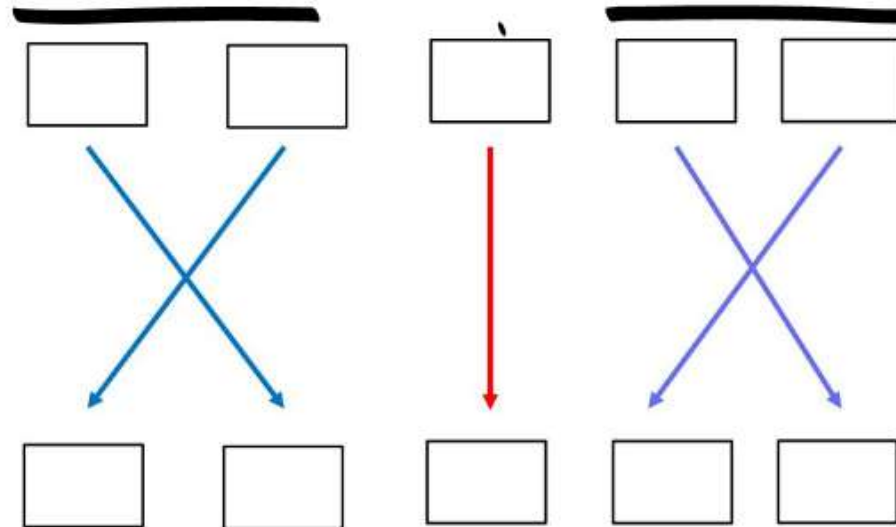
Cross Coding / क्रॉस कोडिंग

➤ 2 Cross at least

4 Letters



5 Letters

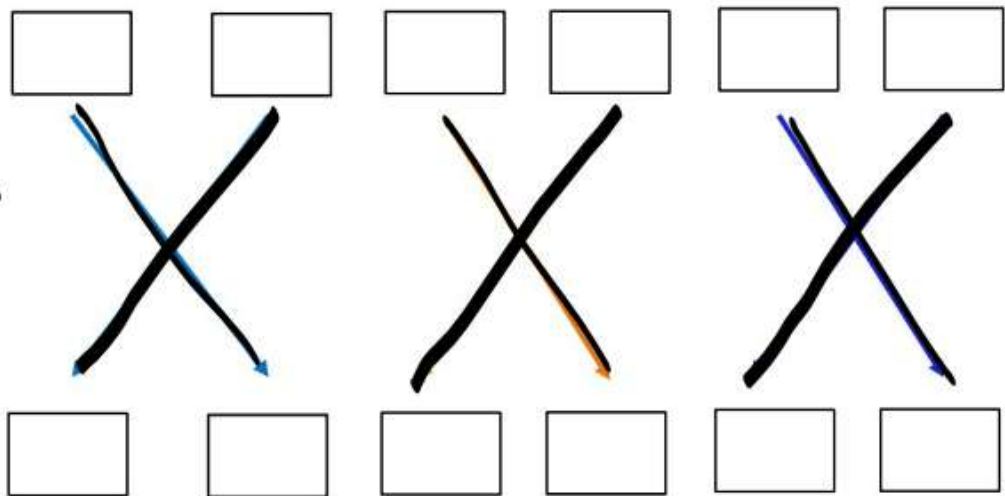


Grouping

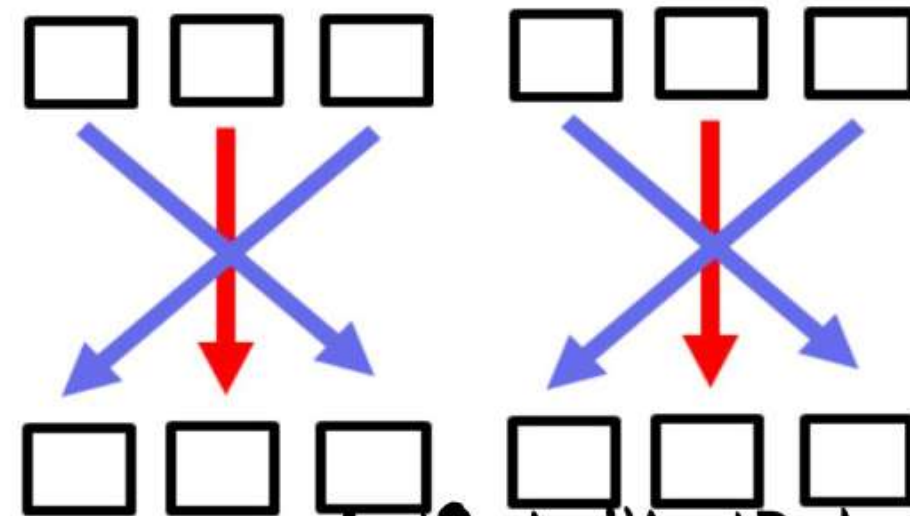


6 Letters

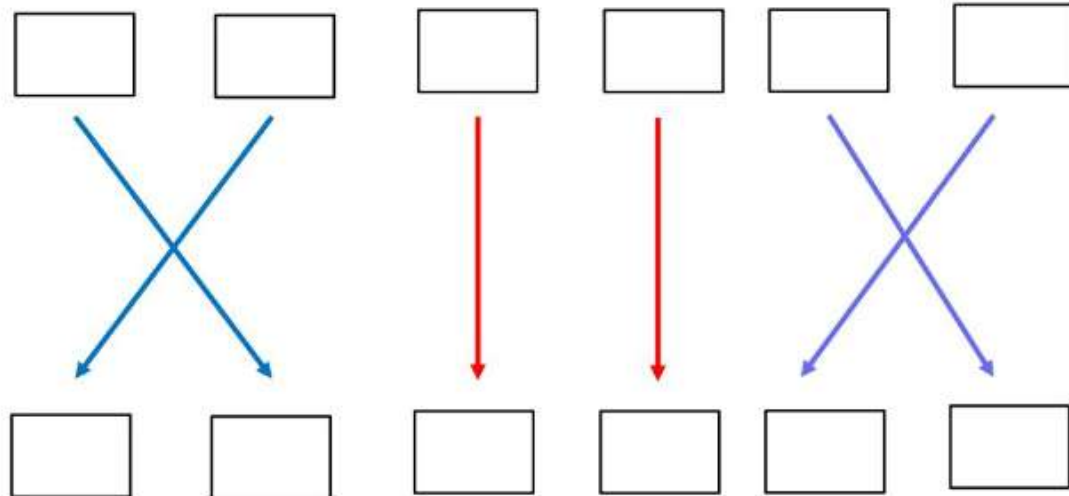
i



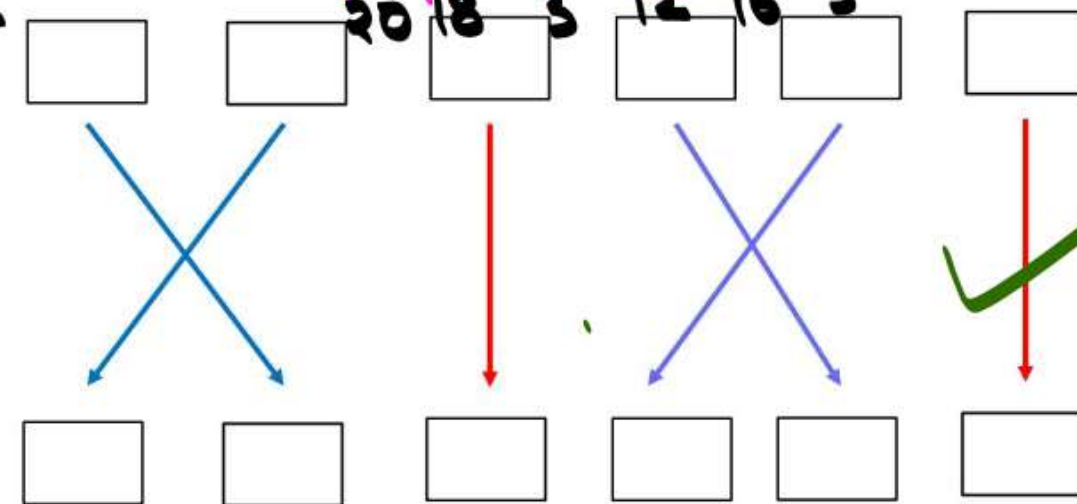
ii



iii



iv

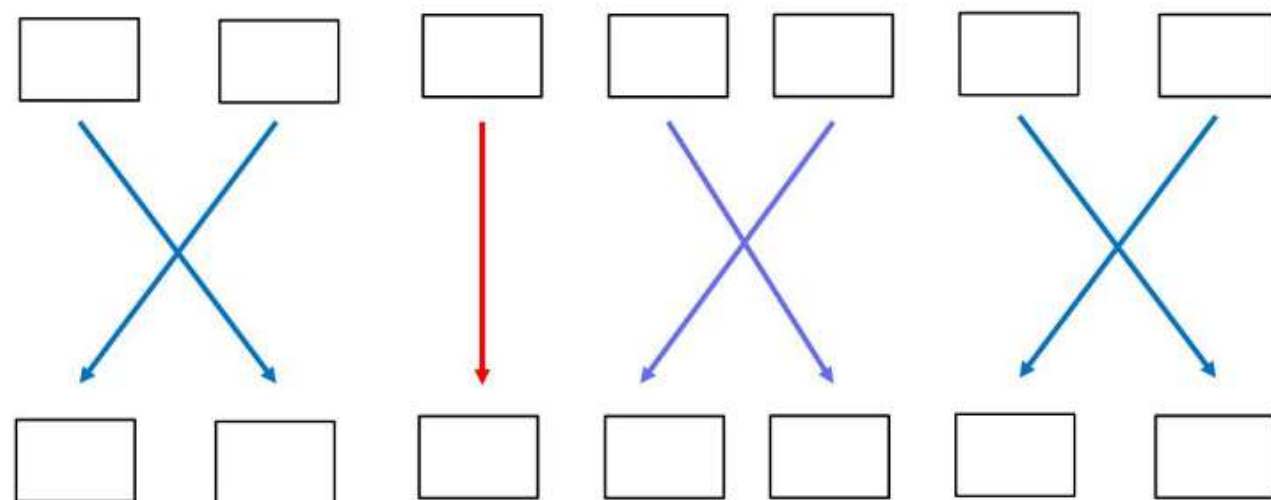
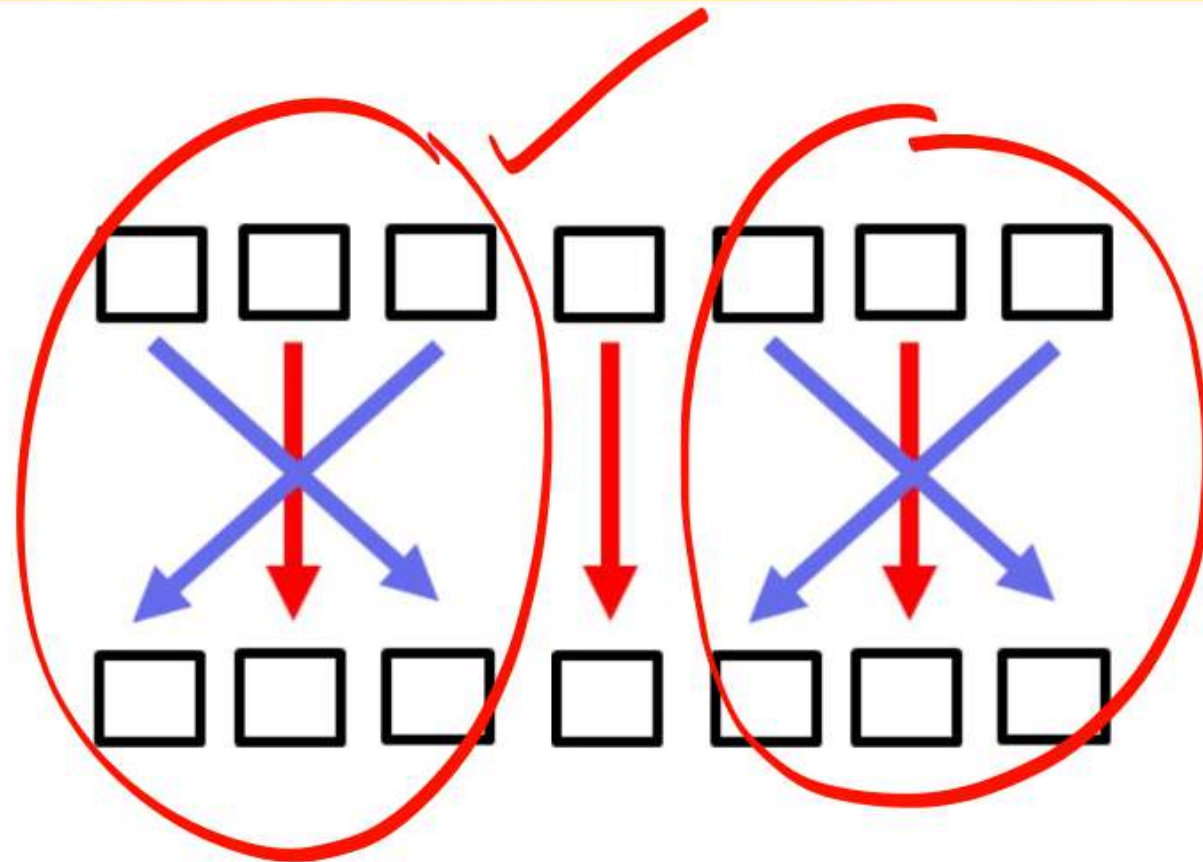


13 1 24 8 21 2
MAXHUB
B Z I Y C V
20 15 9 25 3 22

16 18 1 14 10 1
P R A N J A
20 18 3 12 16 3
T R C L P C

7 Letters

18 15 19 8 1 14 10
 R O S H A N H
 -3 -3 -3
 P L O F F K X
 16 12 15 5 6 = 25

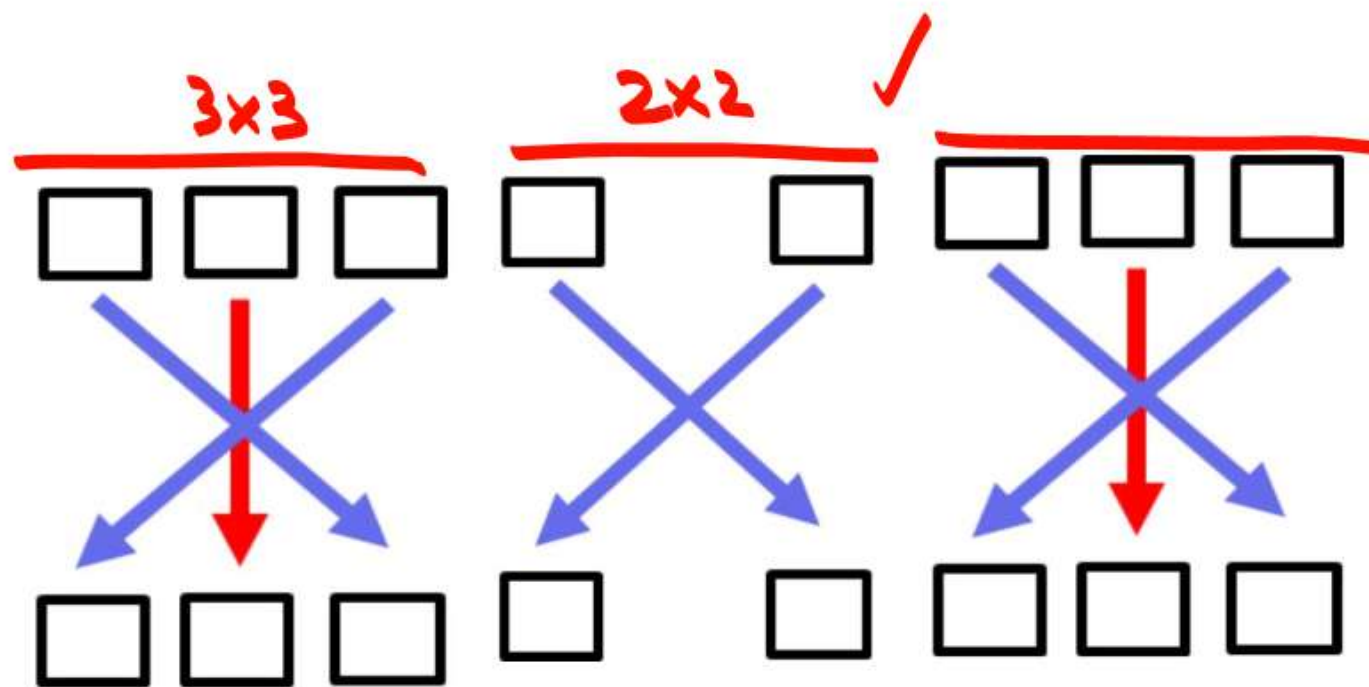
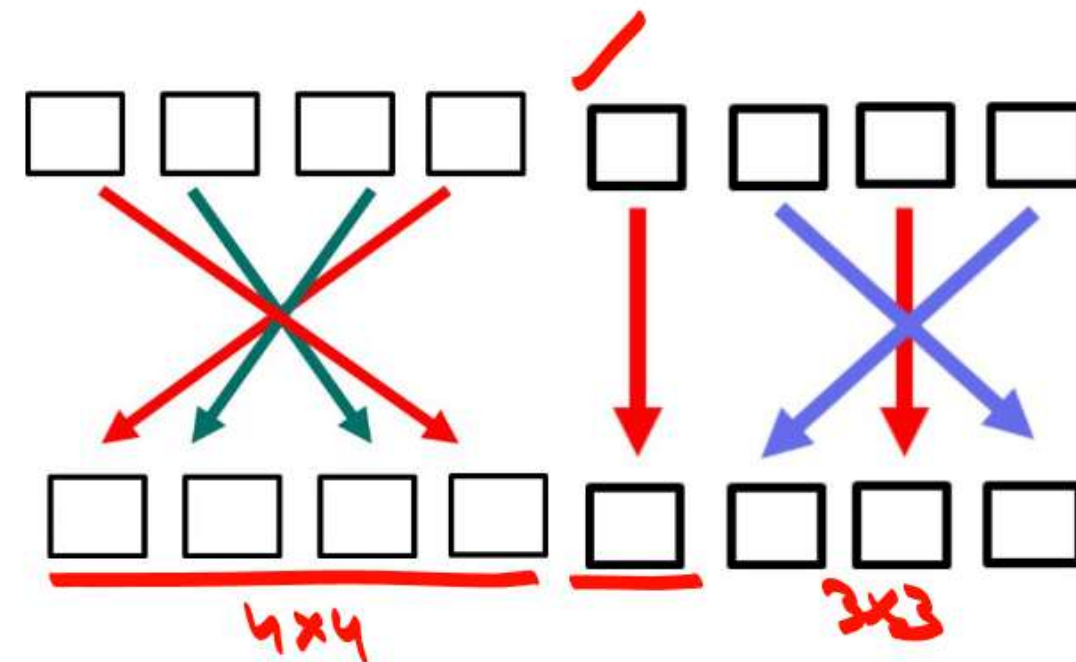
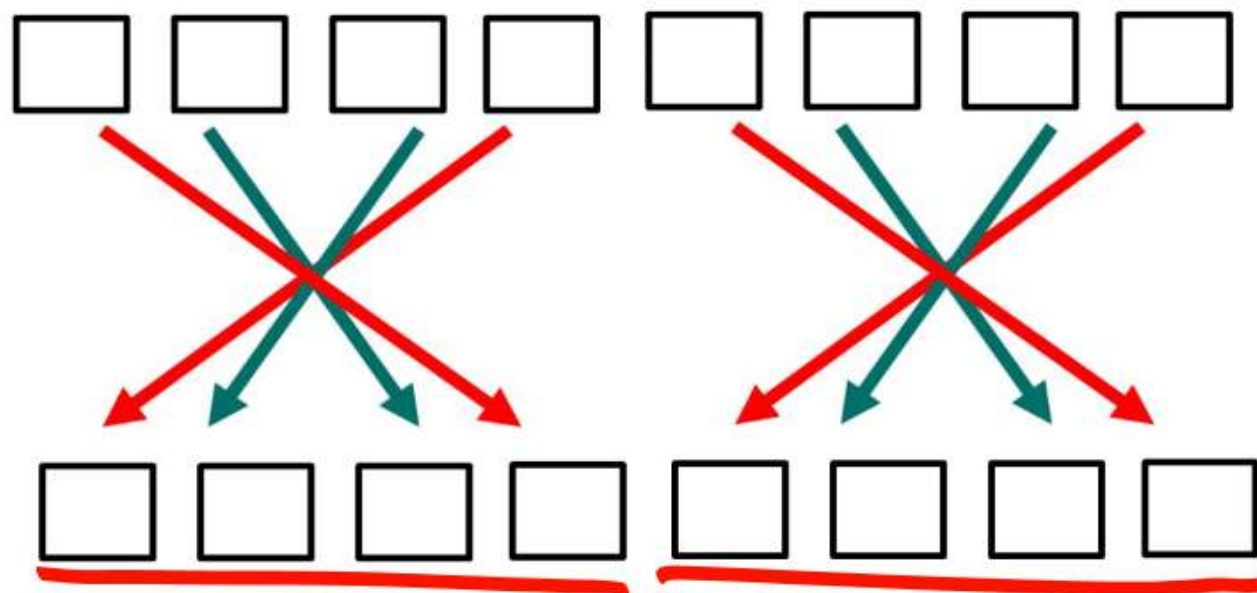


127

$$\begin{array}{r} +23 \\ \hline 13 \end{array} \rightarrow 26 \checkmark$$

$$\times 24$$

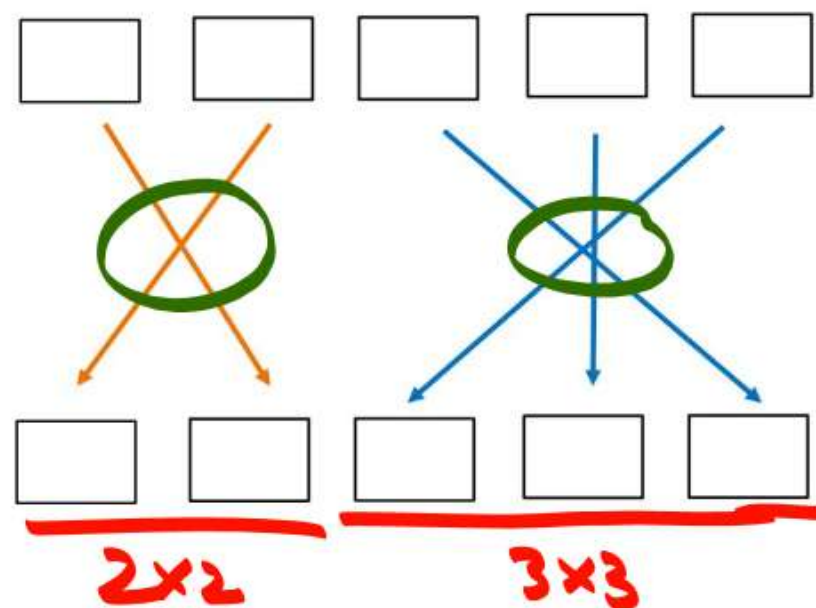
8 Letters



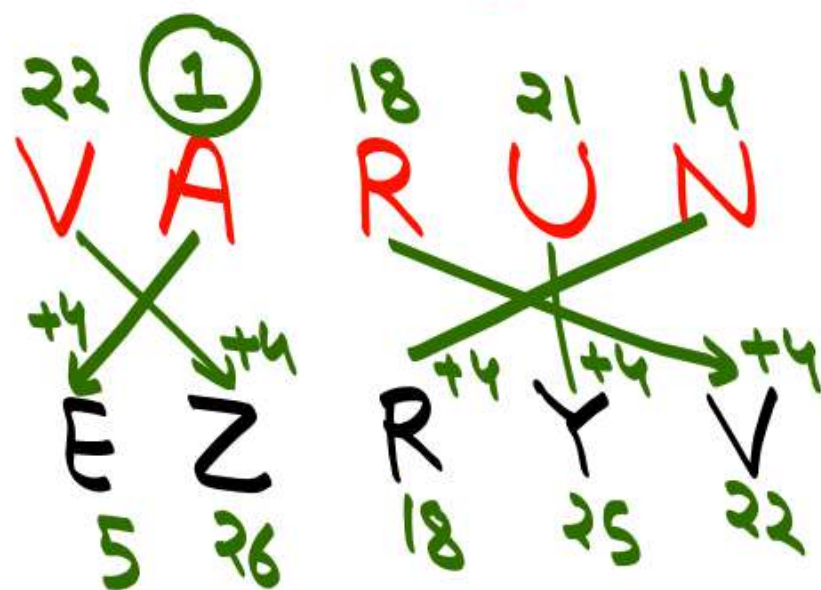
And so on

Section wise/ Miscellaneous(MIX) Coding

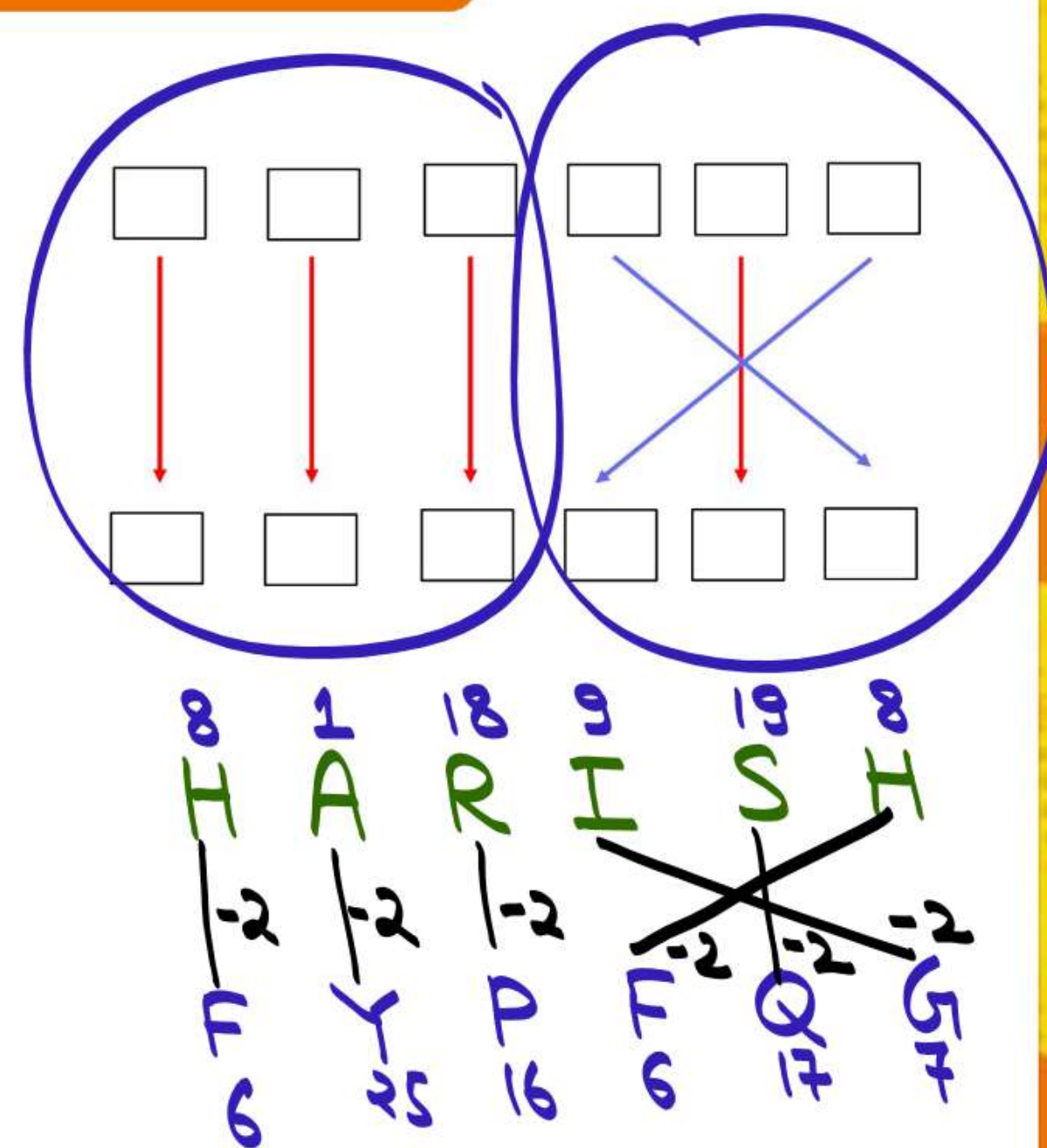
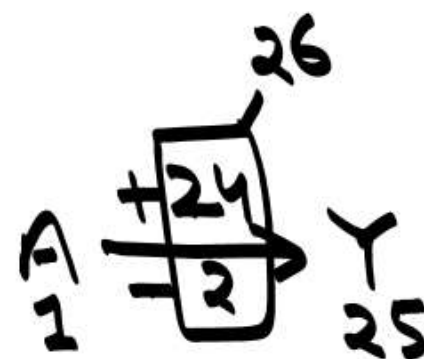
i



Ex)



ii

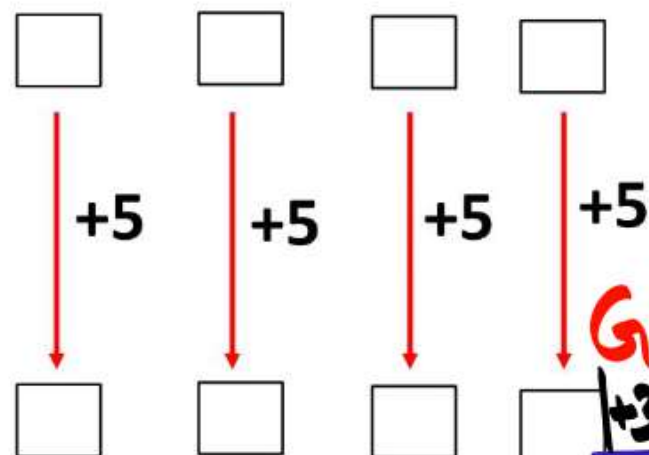


Logics of coding - decoding

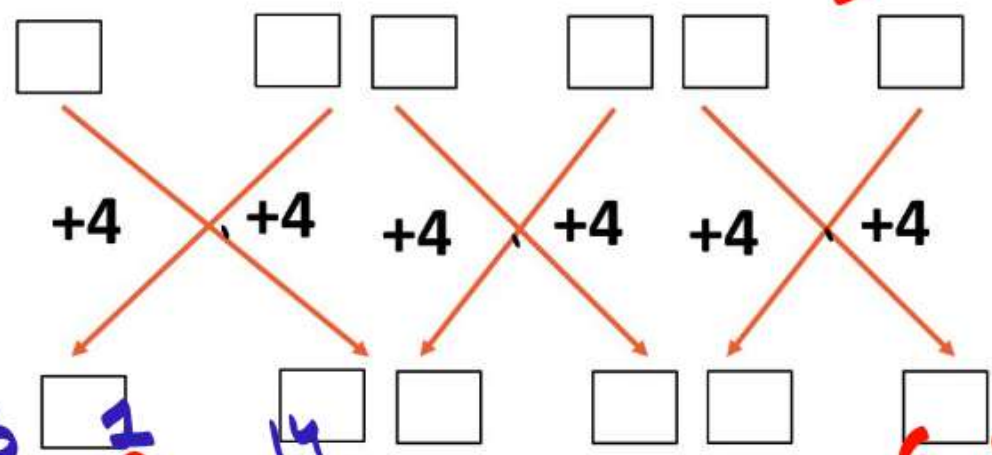
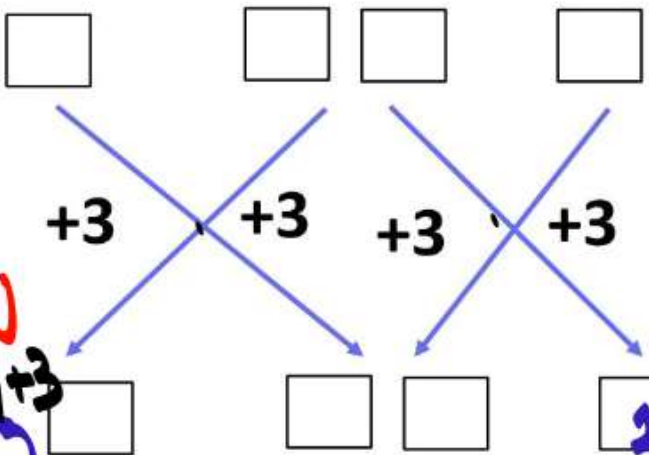
तर्क



Fixed Addition



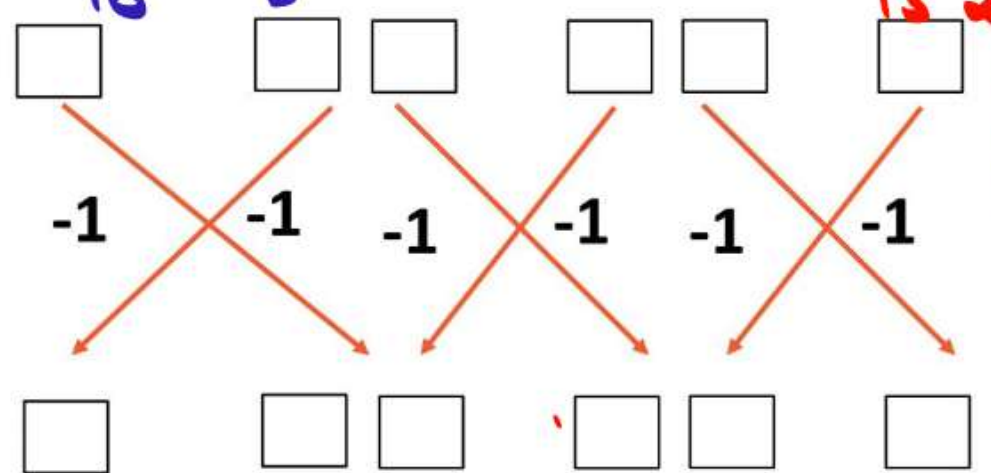
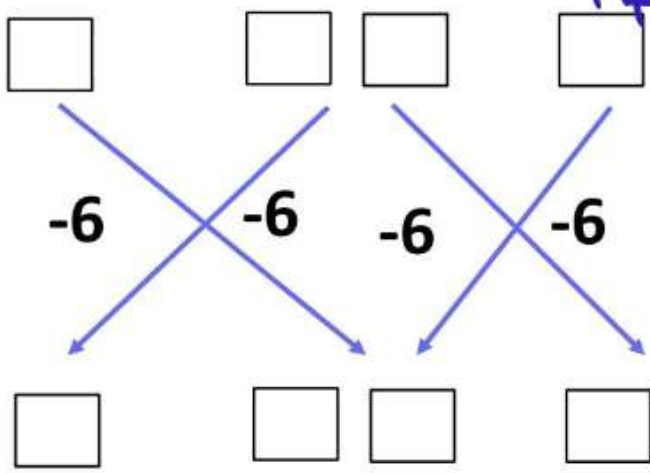
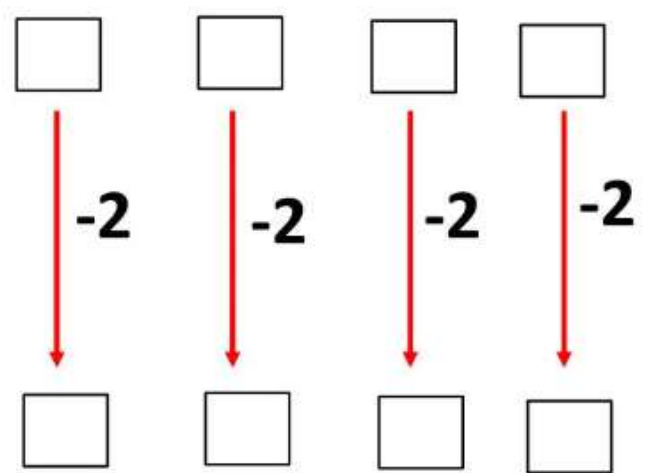
GAGAN
+3 +3 +3 +3 +3
JDJDQ



~~A B H A~~
~~+3 +4 +4 +4~~
~~D L F E~~
~~4 12 6 5~~
F + L
55
+21
-5
26



Fixed Subtraction



~~A M~~
~~+4 +4~~
~~Q U~~
~~13 5~~
um

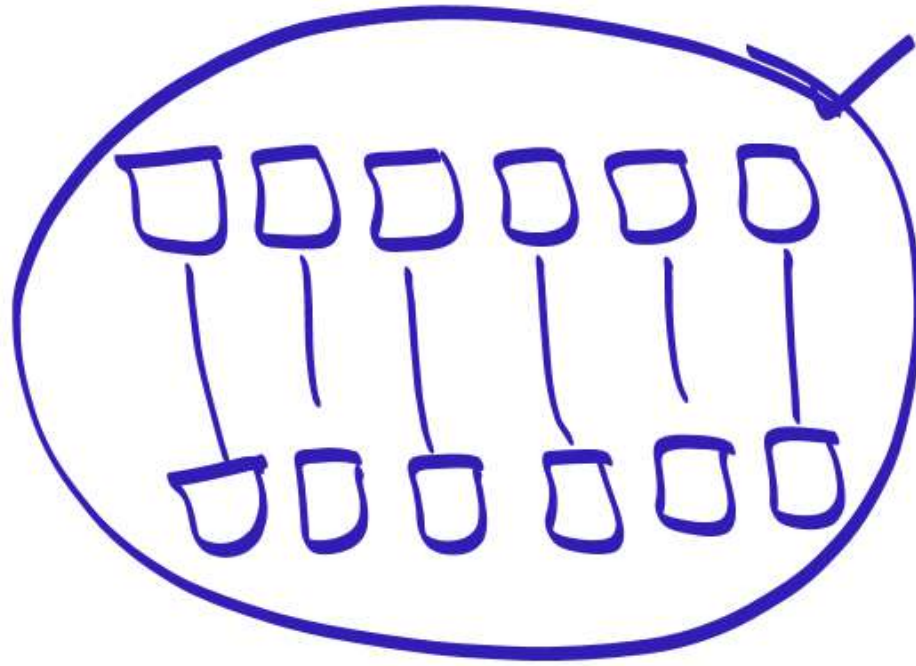
~~A Z~~
~~+4 +4~~
~~R U~~
~~18 5~~
um

Cross
+4

~~F I X E R~~
~~+4 +4 +4 +4 +4~~
~~M Z S D A~~
~~13 26 19 4 1~~
F + L
-5

If "LINCOLN" is written as "JGLAMJL", how will "OBAMA" be written?

यदि "LINCOLN" को "JGLAMJL" के रूप में लिखा जाता है, तो "OBAMA" कैसे लिखा जाएगा?



☒ A. MZYKY

B. NZXIZ

C. MBZIY

D. NZXIZ

SSC - CGL - PRE - 2025 (24 SEP 2025 SHIFT-3)

¹²	⁹	¹⁴	³	¹⁵	¹²	¹⁴
L	I	N	C	O	L	N
-2	-2	-2	-2	-2	-2	-2
J	G	L	A	M	H	L
₁₀	₇	₁₂	₁	₁₃	₁₀	₁₂

O	B	A	M	A
-2	-2	-2	-2	-2
M	Z	Y	K	Y

If HARMONY is coded as KDUPRQB, then what would BALANCE be?

अगर HARMONY को KDUPRQB के रूप में कोड किया जाता है, तो BALANCE को कैसे कोड किया जाएगा?

8	1	18	13	15	14	25
H	A	R	M	O	N	Y
+3	+3	+3	+3	+3	+3	+3
K	D	U	P	R	Q	B
11	4	21	16	18	17	2

F	+0	F	✓
+3			✓

✓ A) EDODQFH
C) EDLDQGI

B) EDLDQFH
D) EDFDRFH

+3 | +3 | +3 | +3 | +3 | +3 | +3
E D O D Q F H

SSC CHSL TIER-1, Exam 2025,
13 Nov 2025 01:30 PM (Shift-2)

In a code language, GARDENING becomes LFWIJSNSL. How would FLOWERBED be written?

एक कोड भाषा में, GARDENING को LFWIJSNSL लिखा जाता है। FLOWERBED को कैसे लिखा जाएगा?

KQTBJWGJI

☒ A) KQTBJWGJI

C) KQTBJXGJI

B) KQTCJXGJI

D) KQTBJGWJI

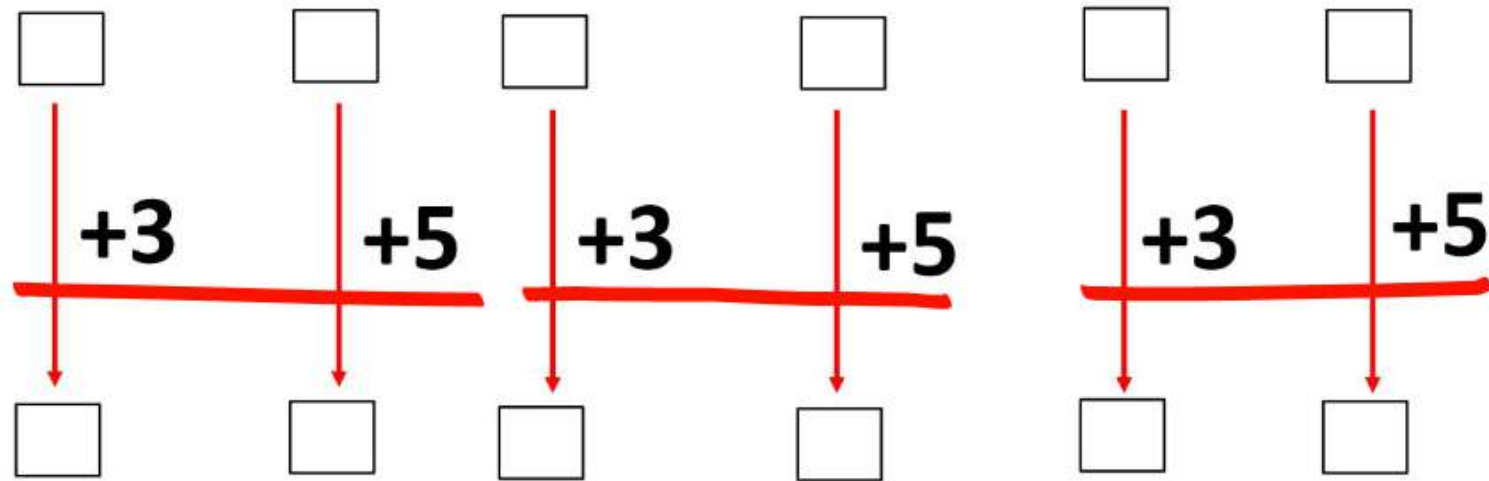
SSC CHSL TIER-1, Exam 2025,

12 Nov 2025 01:30 PM (Shift-2)

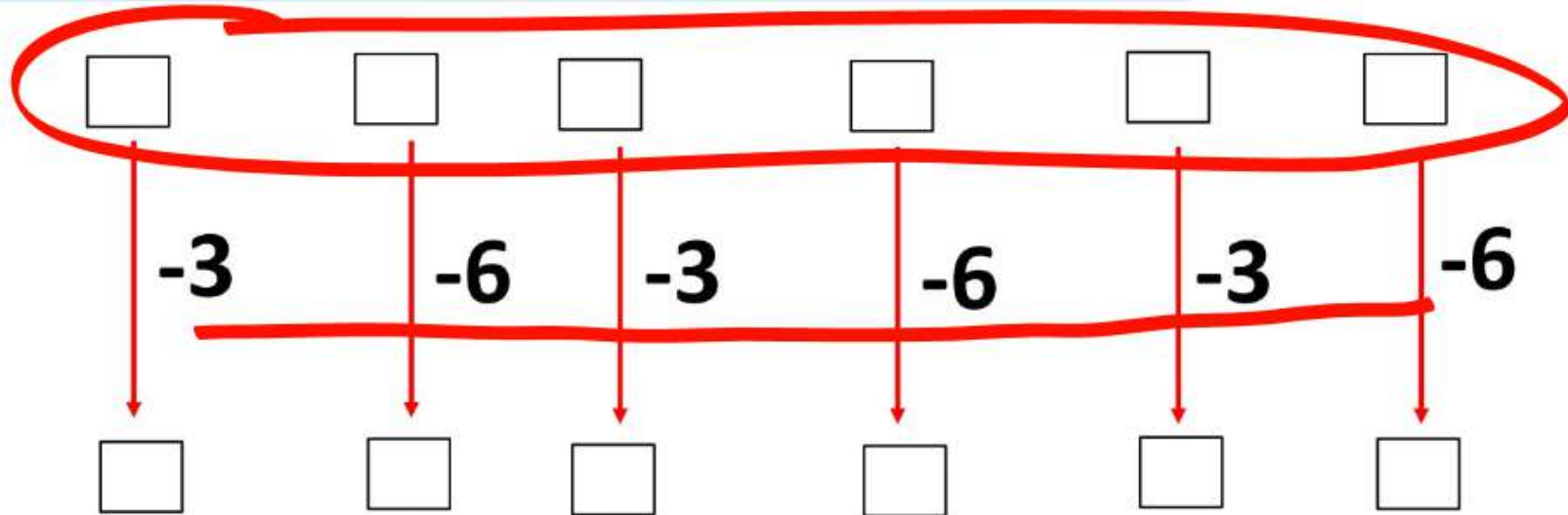




Alternate Addition

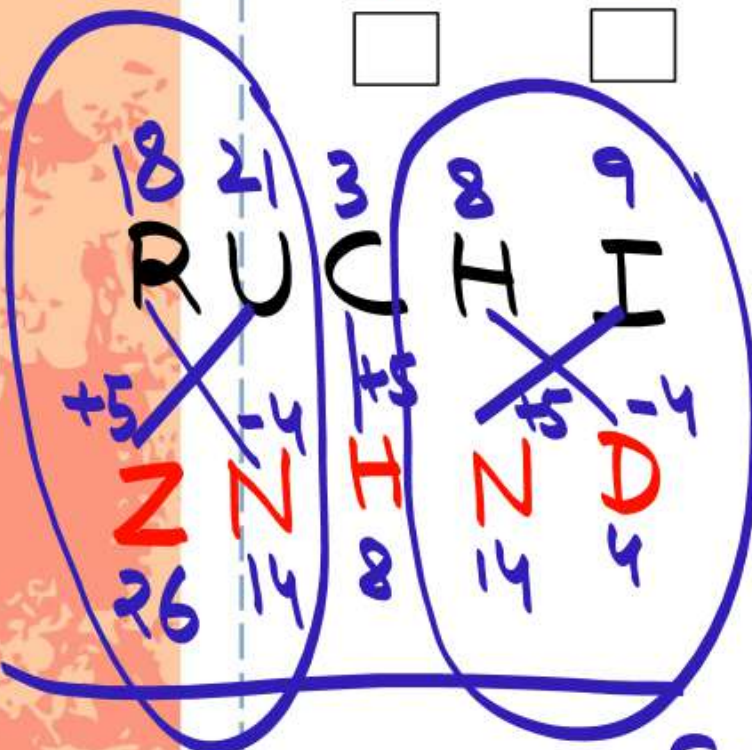
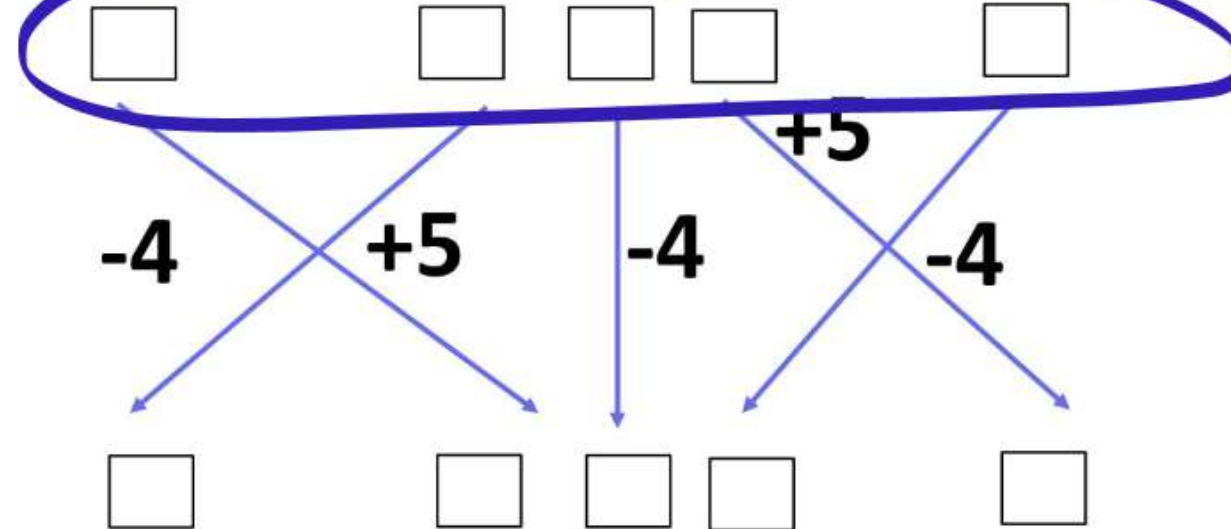
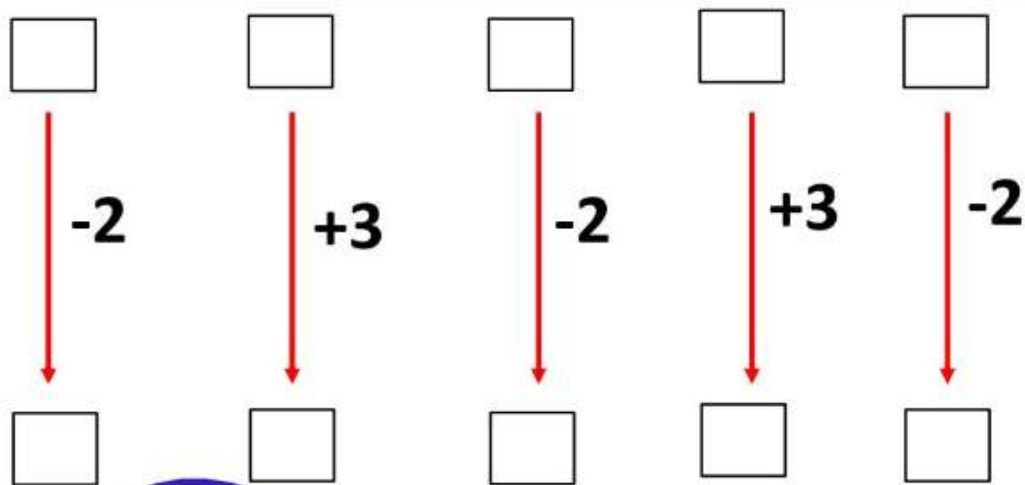


Alternate Subtraction

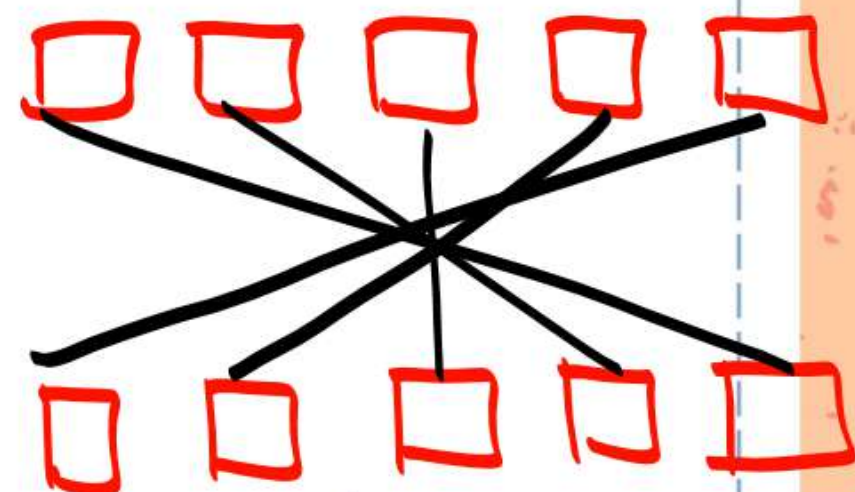
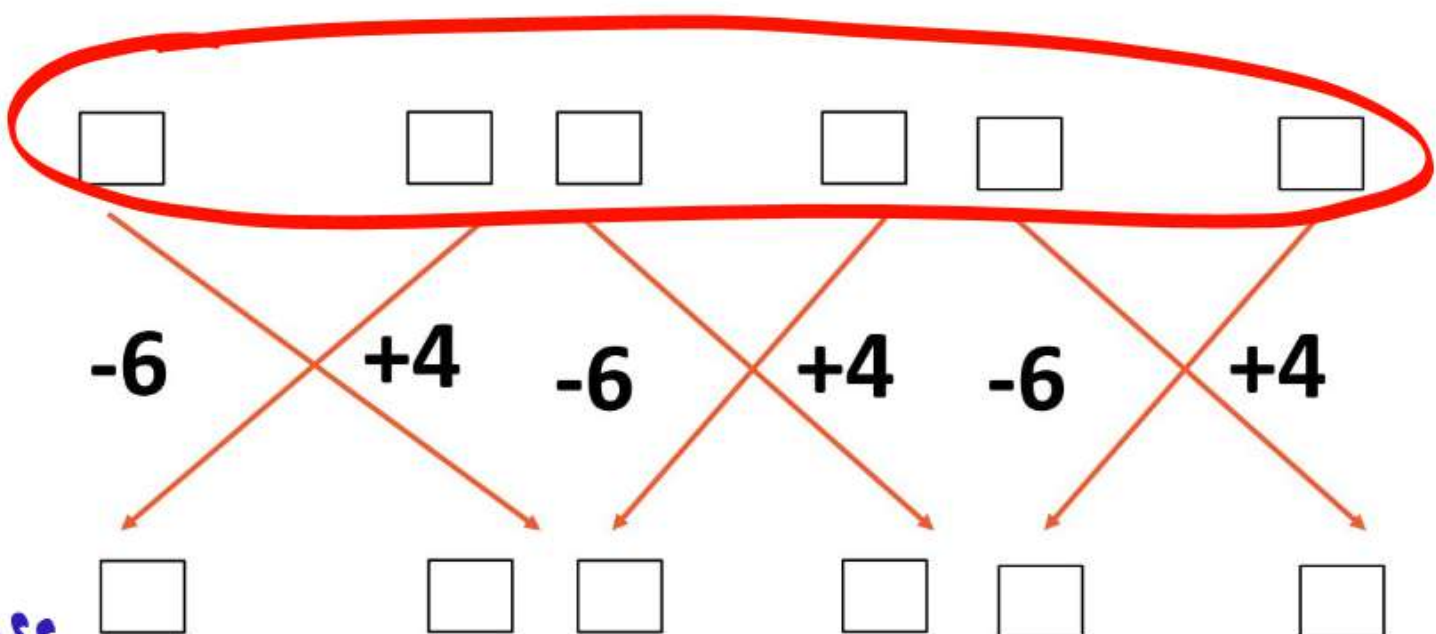




Alternate Addition/ Subtraction



Cross





Opposite Logic

Four empty boxes with red arrows pointing down to the word "Opp." below each.

Opp. Opp. Opp. Opp.

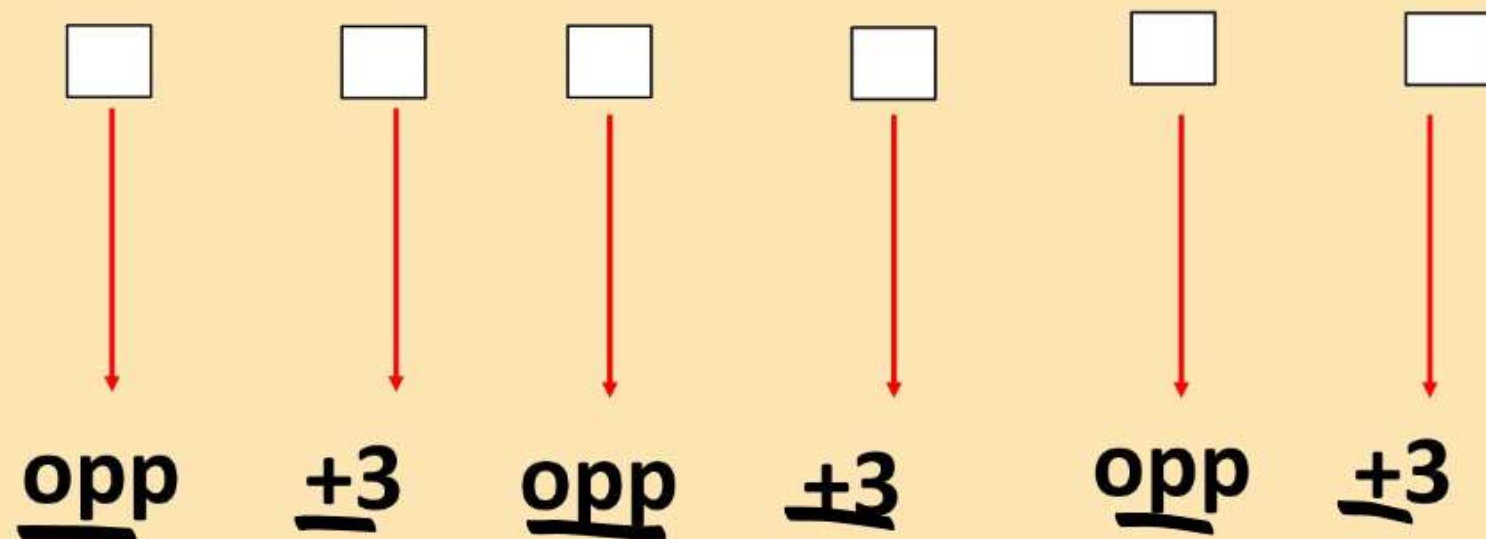
M A Z J E H T

z n 3 q < > 5

Alphabet		Opposite
A	→	Z
B	→	Y
C	→	X
D	→	W
E	→	V
F	→	U
G	→	T
H	→	S
I	→	R
J	→	Q
K	→	P
L	→	O
M	→	N

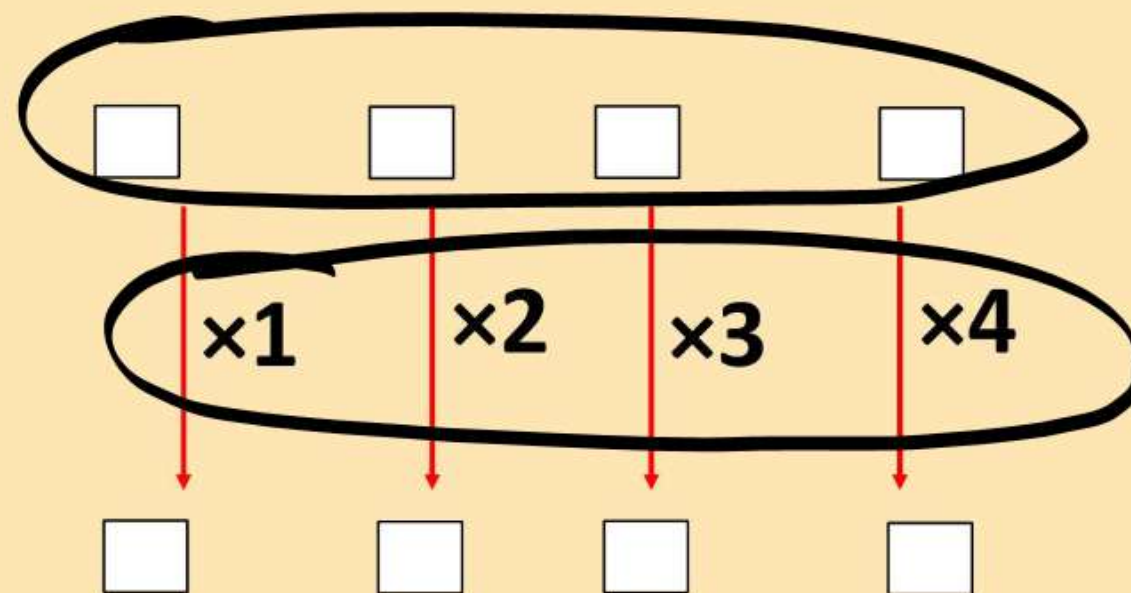
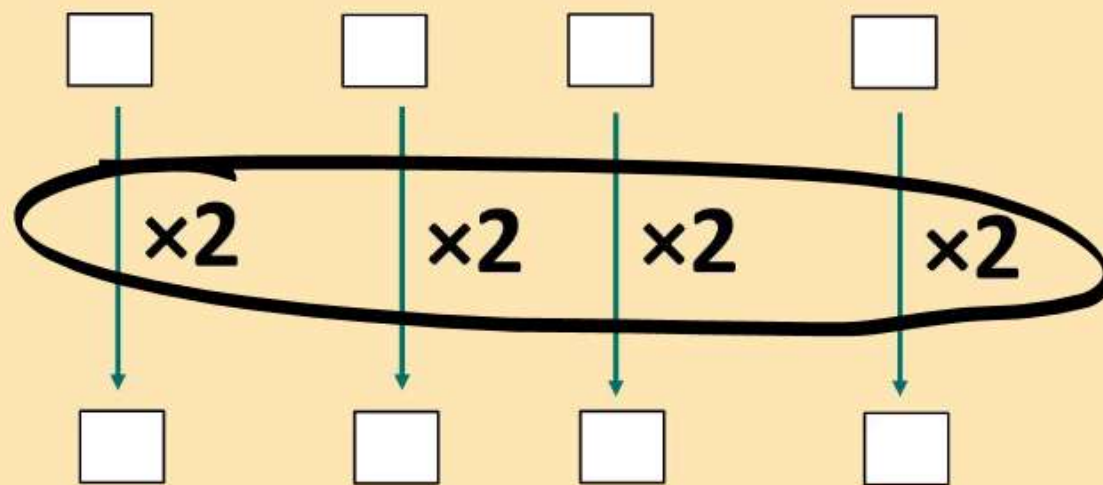


Mix with Opposite



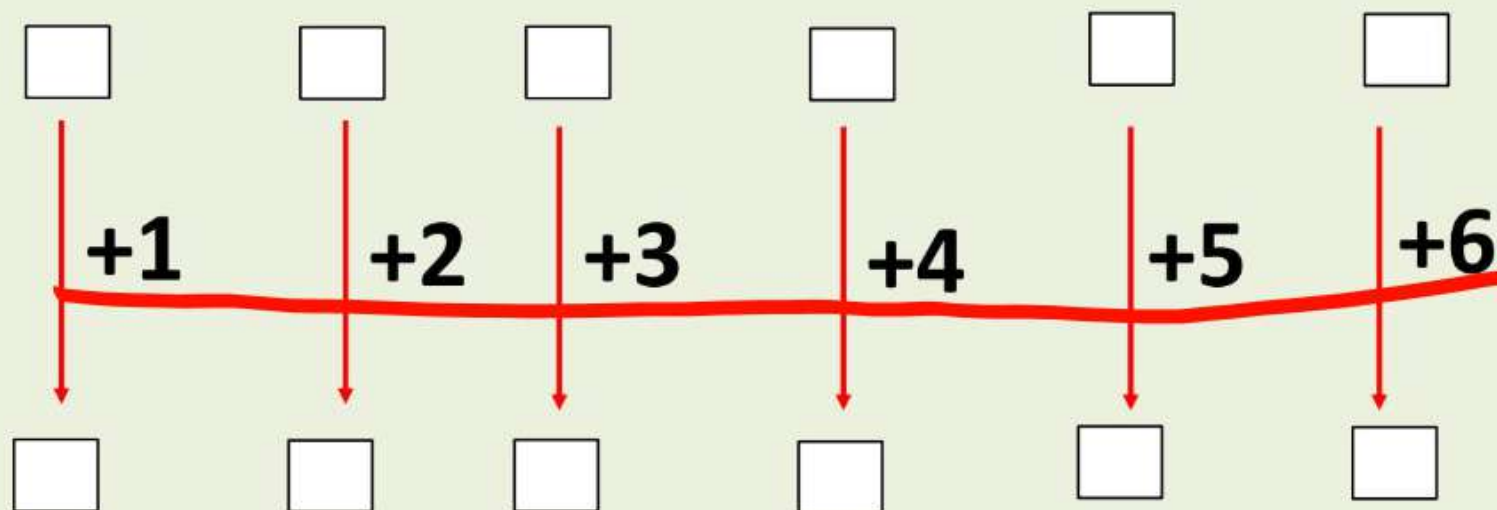
Multiplication Logic

1 5 6 3
A E F C
x3 | x3 | x3 | x3
C O R I
3 15 18 9

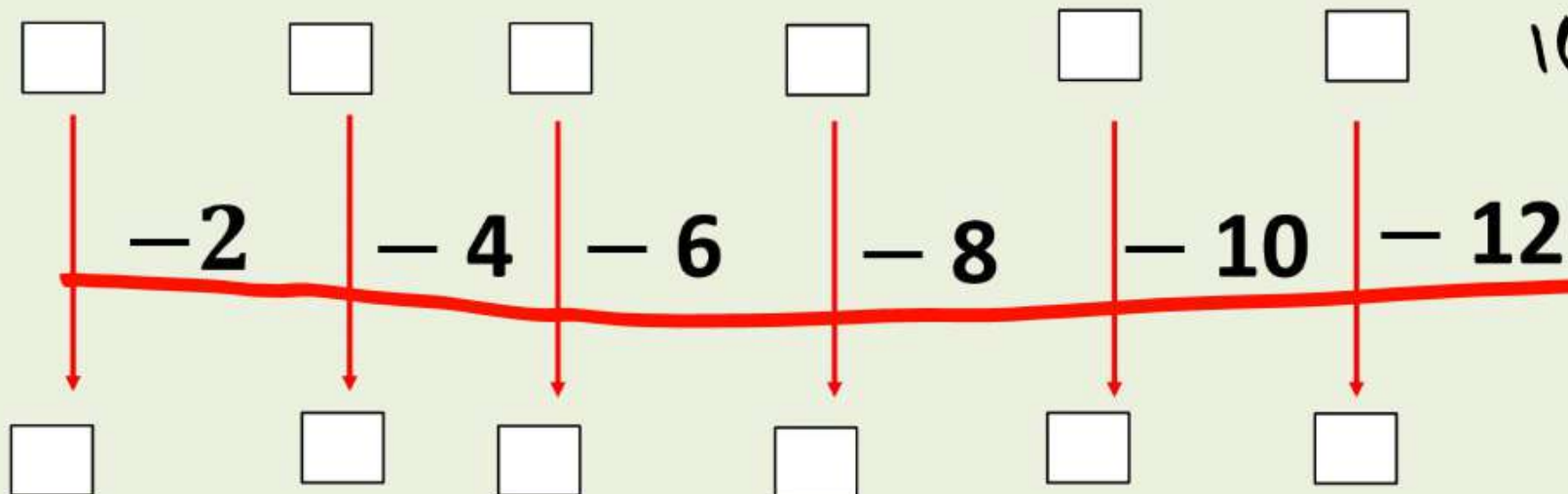




Series Addition



Series Subtraction



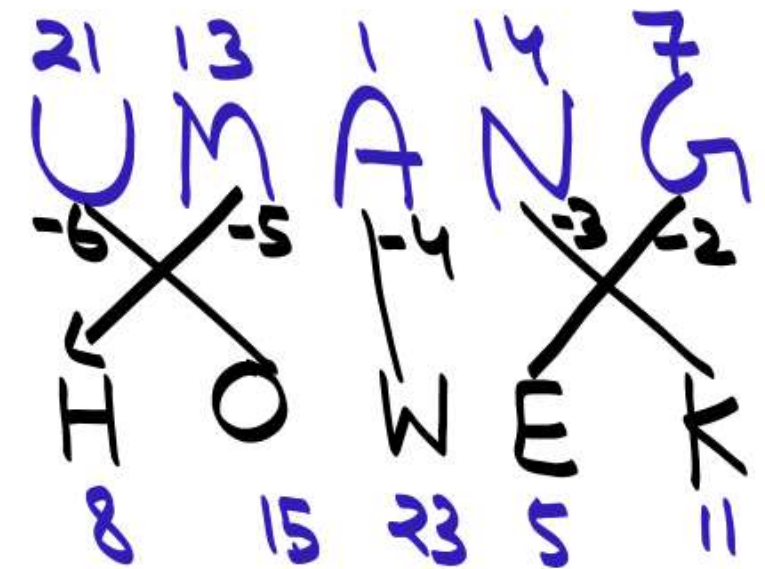
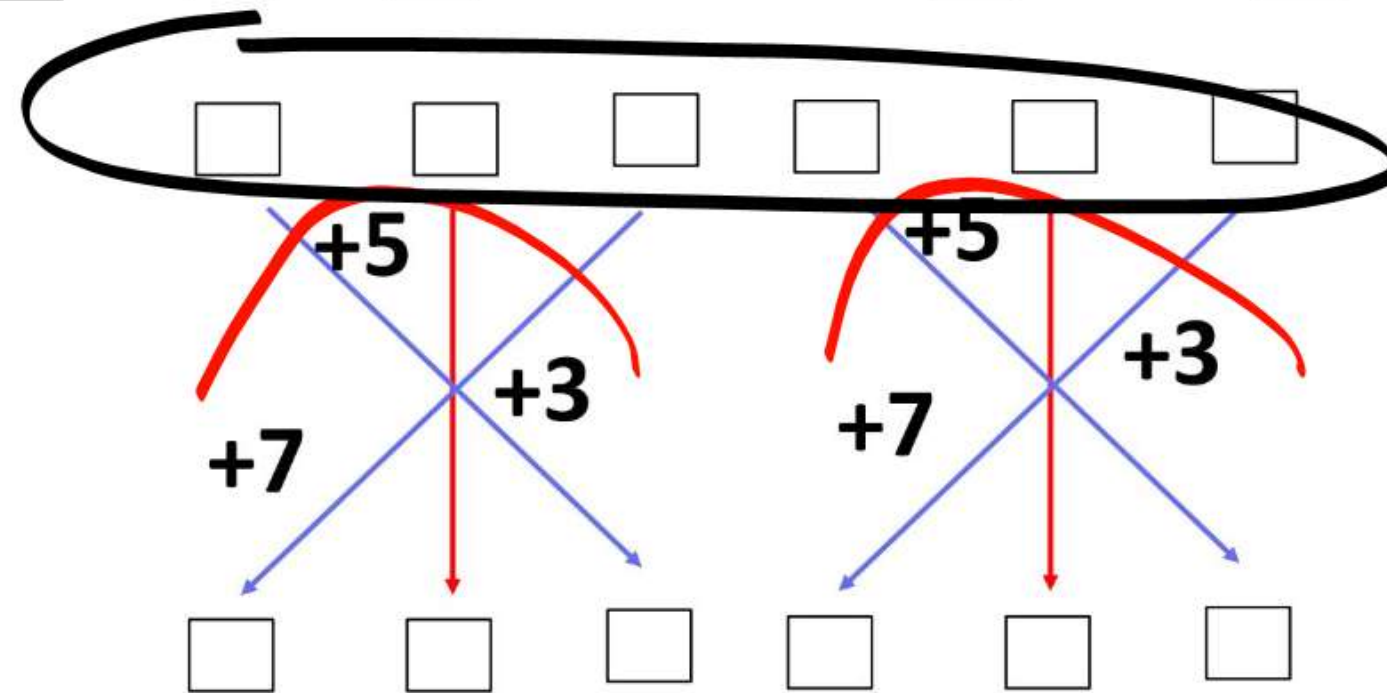
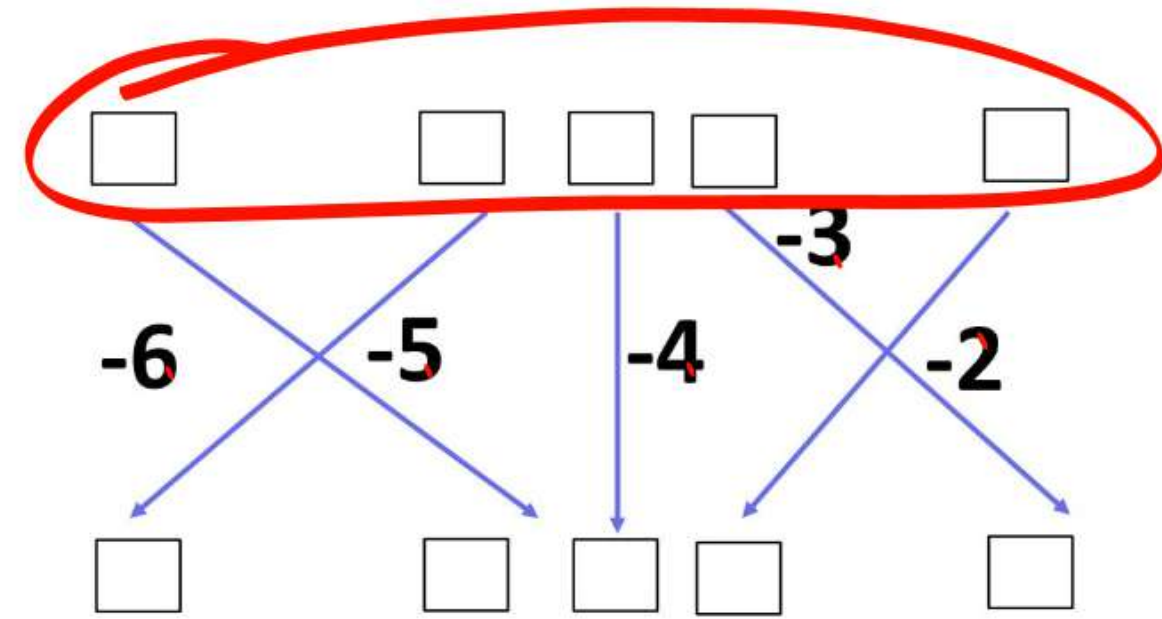
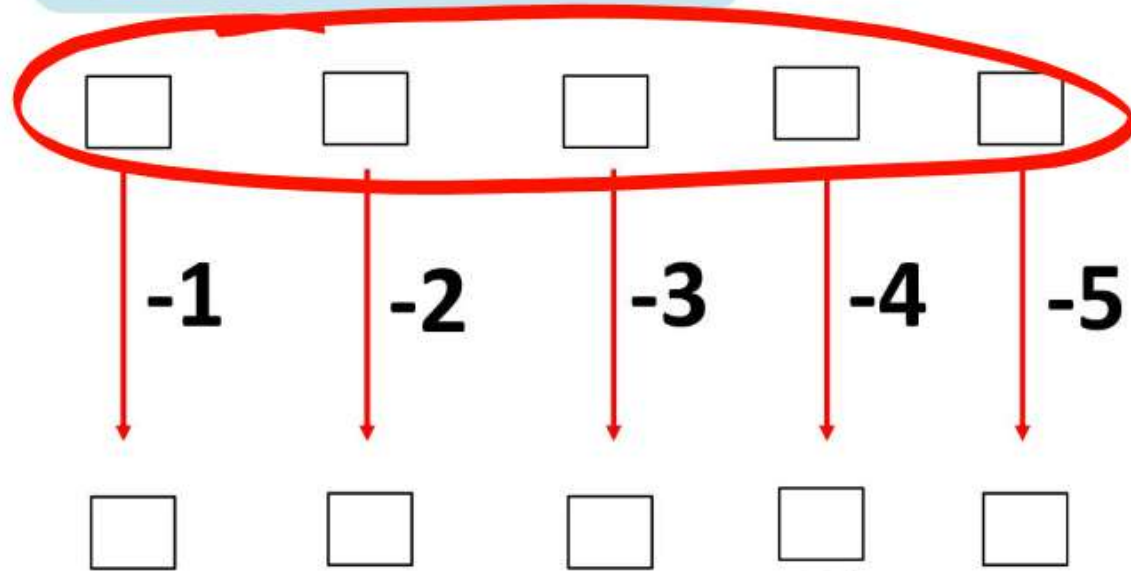
1	14	19	8	9	11	2
A	N	S	H	I	K	A
+9	+8	+7	+6	+5	+4	+3
J	V	Z	N	N	O	D
10	22	26	14	14	15	4

F to F
Series

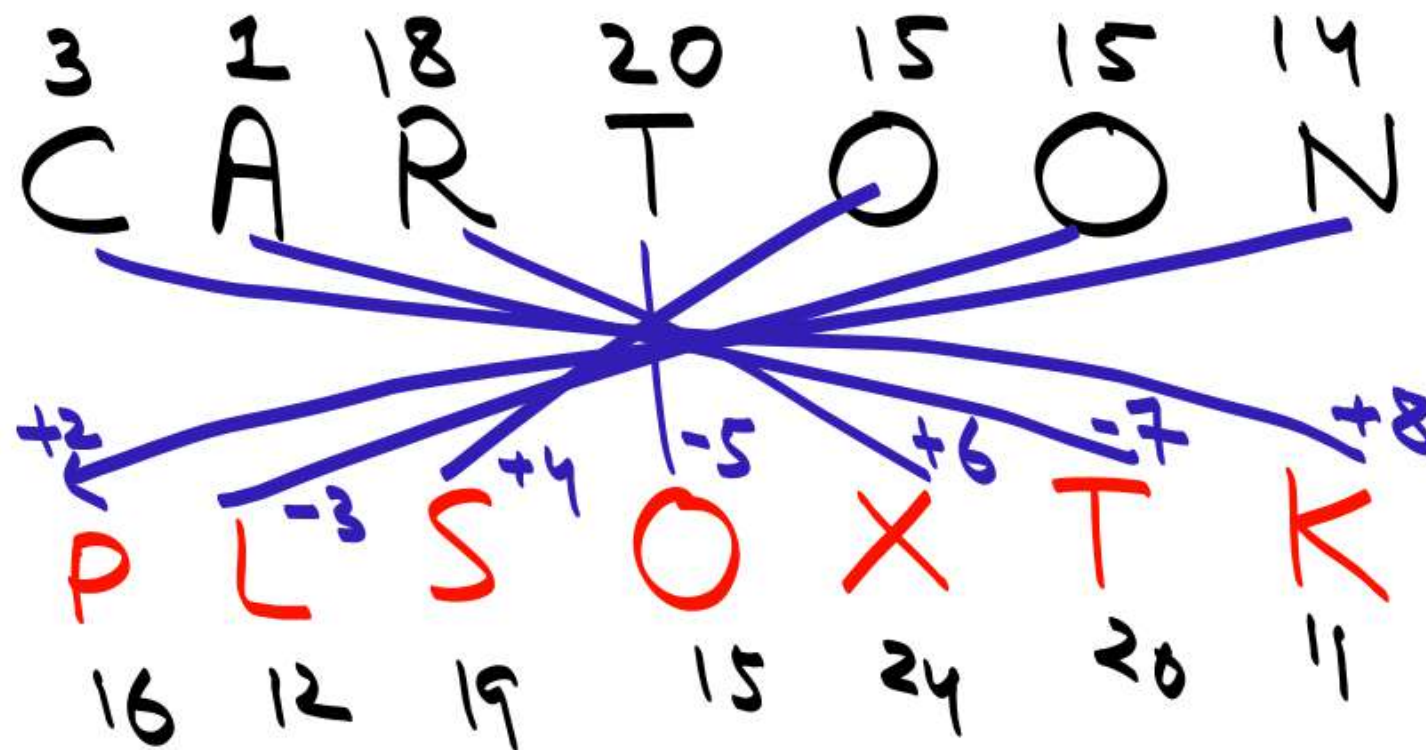
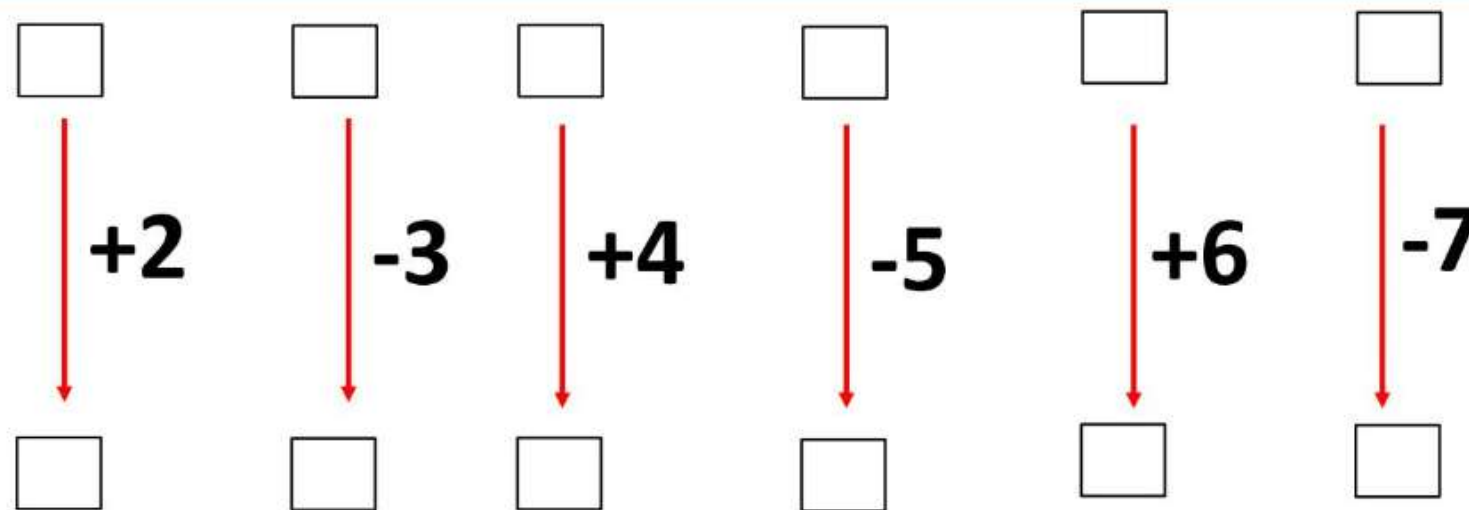




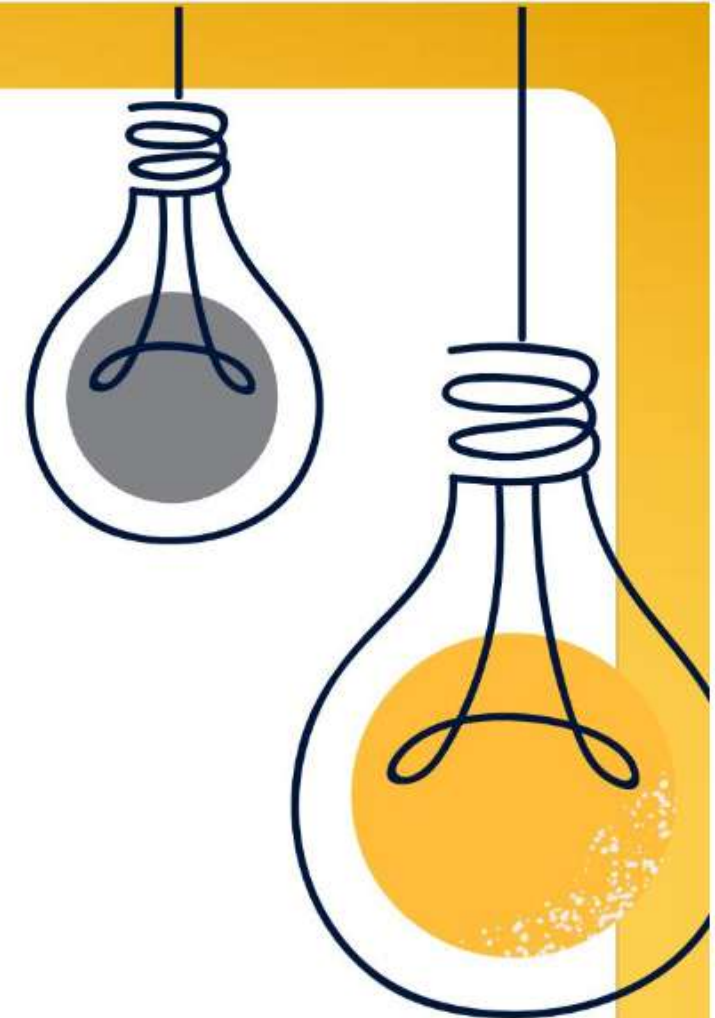
SERIES



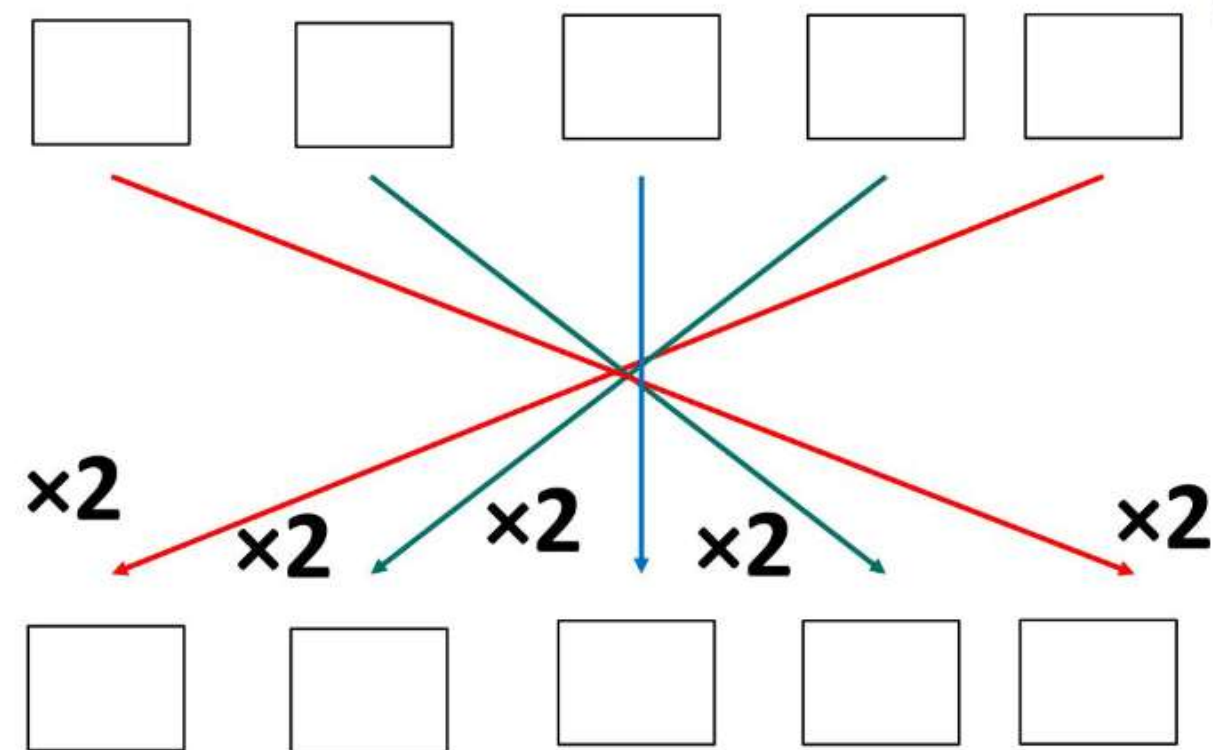
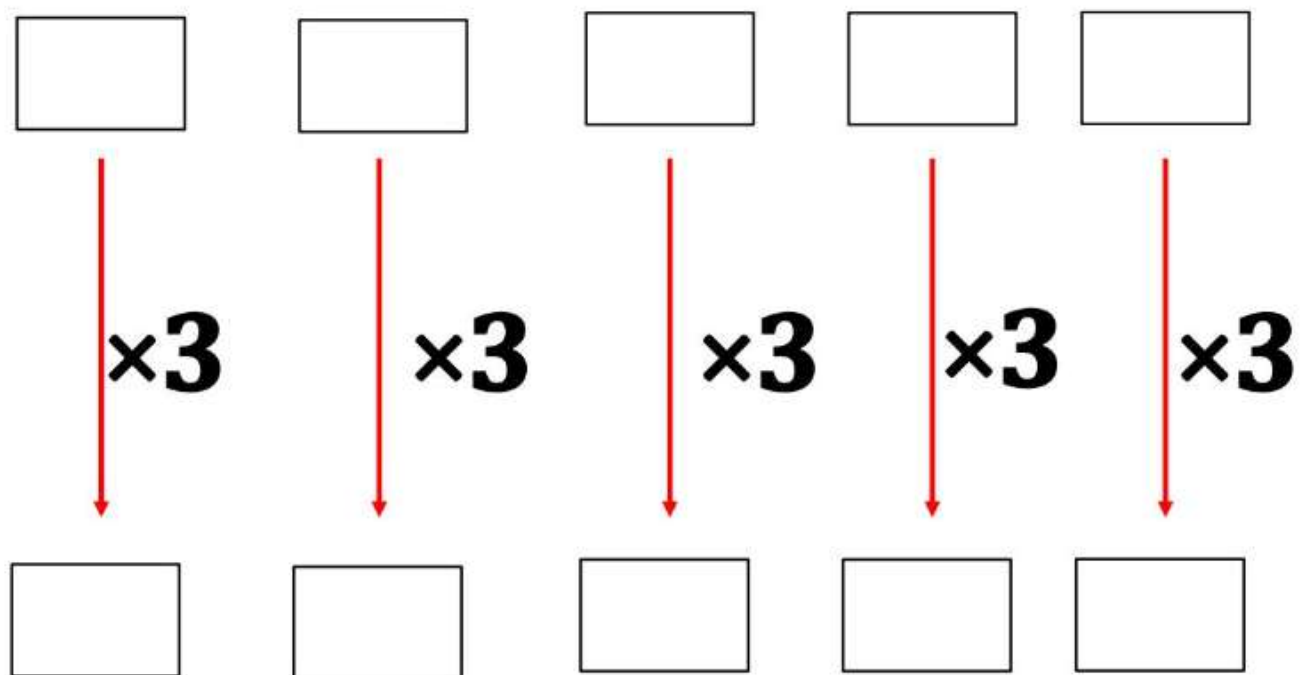
Series Alternative (Add+Subtraction)



1=+0L
Series



Multiple Logic



Digit Sum

M	K	P	U	C
<u>13</u> (1+3=4)	<u>11</u> (1+1=2)	<u>16</u> (1+6=7)	<u>21</u> (1+2=3)	<u>3</u> (3)

→ Positions of alphabate

D
4

B
2

G
7

C
3

C

Vowel Order

A E I O U

1 2 3 4 5 ✓

5 4 3 2 1 ✓

Consonant Order

= Order - No. of Vowel
Came Before

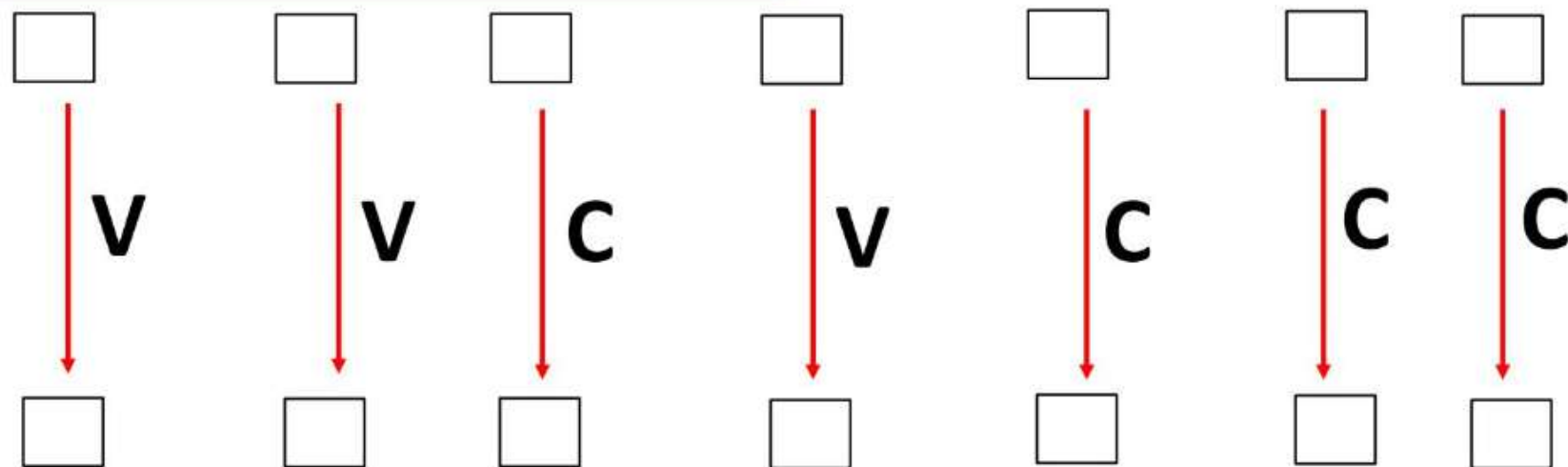
B C D F G H J K L M N P Q R S T V W X Y Z

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

$$K = 11 - 3 = 8$$

$$W = 23 - 5 = 18$$

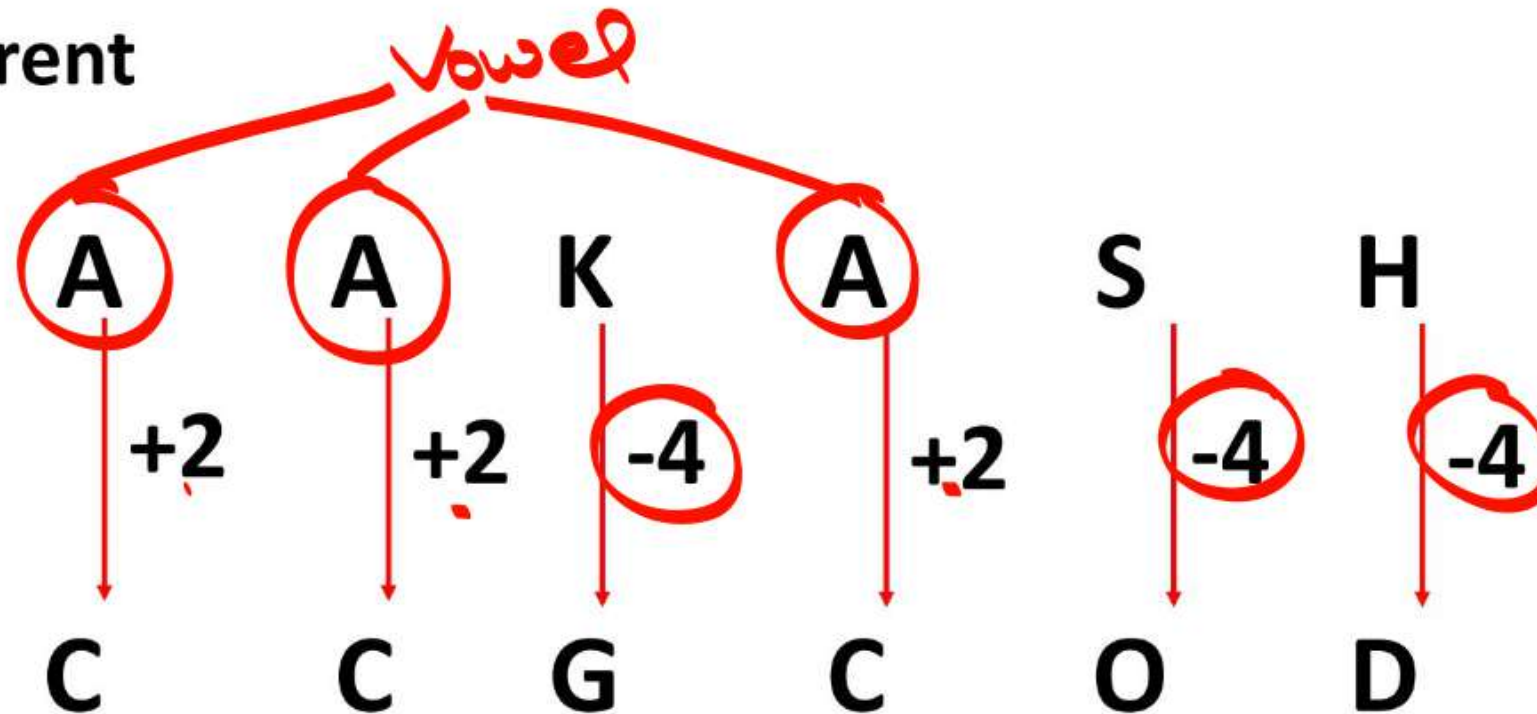
Vowel / Consonant



Vowel
Consonant

Both have Different
logic

Ex. ↓





digit Count के आधार पर Logic

Single Digit Alphabate

A ————— **I**
1 **9**

9 अक्षर

1st Logic

Double Digit Alphabate

J ————— **Z**
10 **26**

17 अक्षर

2nd Logic



DIGIT (SINGLE / Double Digit Sum)



A B C D E F G H I

————→ Single Digit Order

J K L M N O P Q R S

————→ Double Digit Order

T U V W X Y Z

Increasing Order
(बढ़ते क्रम में)

C A R O M

A C M O R



ऊपर लखे तर्कों में से
कोई भी एक तर्क

Decreasing Order
(घटते क्रम में)

C A R O M

R O M C A



ऊपर लखे तर्कों में से
कोई भी एक तर्क

Revision is the key

The background features four decorative autumn-themed illustrations in the corners. Top-left: An orange oak leaf with a brown outline and a thin orange swirl line. Top-right: A green leaf with a brown outline and a green swirl line. Bottom-left: A green leaf with a brown outline. Bottom-right: An orange maple leaf with a brown outline and a green swirl line.

Thank You