DESAIN ANALISIS ALGORITMA

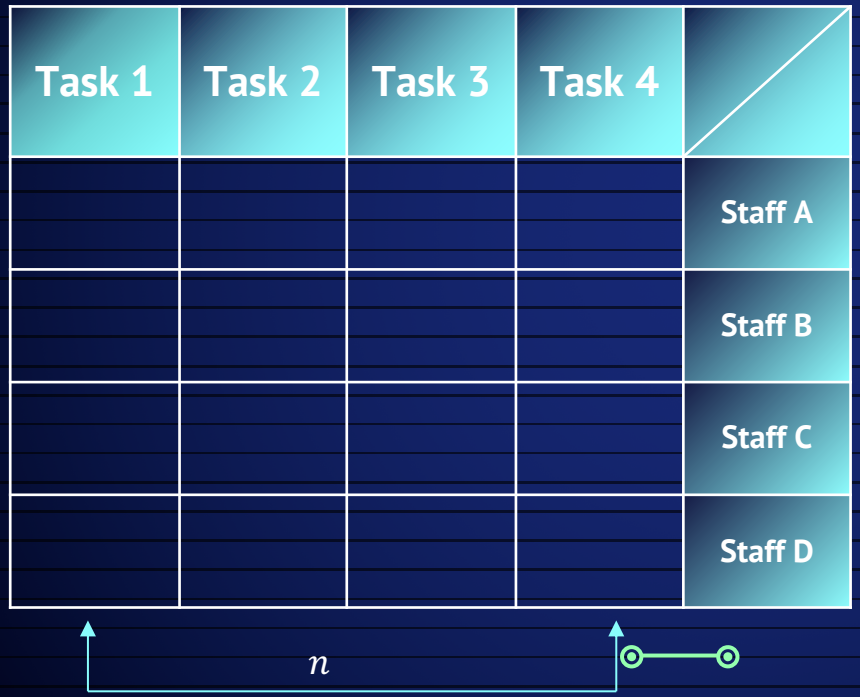
ILUSTRASI

Bagian 1

02

ASSIGNMENT PROBLEM

MATRIKS $s_{ix}t_j(m_x n)$



MENGECEK KEMUNGKINAN

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$i_0 j_0$

10

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 \quad + \quad i_1 j_1$$

$$10 \quad + \quad 9$$

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 + i_1 j_1 + i_2 j_2$$

$$10 + 9 + 15$$

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 + i_1 j_1 + i_2 j_2 + i_3 j_3$$

$$10 + 9 + 15 + 4$$

$$= 38$$

Biaya

PERCOBAAN KE-1

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 + i_1 j_1 + i_2 j_2 + i_3 j_3$$

$$10 + 9 + 15 + 4$$

$$= 38$$

Biaya

PERCOBAAN KE-2

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 + i_1 j_1 + i_3 j_2 + i_2 j_3$$

$$10 + 9 + 8 + 3$$

$$= 30$$

Biaya

PERCOBAAN KE-2

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_0 + i_1 j_1 + i_3 j_2 + i_2 j_3$$

$$10 + 9 + 8 + 3$$

$$= 30$$

Biaya

PERCOBAAN KE-n

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

$$i_0 j_1 + i_1 j_3 + i_2 j_0 + i_3 j_2$$

$$7 + 2 + 1 + 3$$

$$= 13$$

Biaya

$13 Biaya Optimal

PERCOBAAN KE-n

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

Pembagian

Task	Staff

Ingat $i = staff$, j = task

$i_0 = staff\ A$, j_0 = task 1

$i_1 = staff\ B$, j_3 = task 2

$i_2 = staff\ C$, j_2 = task 3

$i_3 = staff\ D$, j_3 = task 4

$13 Biaya Optimal

$$i_0j_1 + i_1j_3 + i_2j_0 + i_3j_2$$

$$7 + 2 + 1 + 3 = 13$$ Biaya

PERCOBAAN KE-n

Task 1	Task 2	Task 3	Task 4	
10	7	5	6	Staff A
8	9	3	2	Staff B
1	6	15	8	Staff C
12	7	3	4	Staff D

Pembagian

Task	Staff
2	A
4	B
1	C
3	D

Ingat $i = staff, \mathrm{j} = \mathrm{task}$

$i_0 = staff\ A\ , j_0 = \mathrm{task}\ 1$

$i_1 = staff\ B\ , j_3 = \mathrm{task}\ 2$

$i_2 = staff\ C\ , j_2 = \mathrm{task}\ 3$

$i_3 = staff\ D\ , j_3 = \mathrm{task}\ 4$

$13 Biaya Optimal

$$i_0 j_1 + i_1 j_3 + i_2 j_0 + i_3 j_2$$

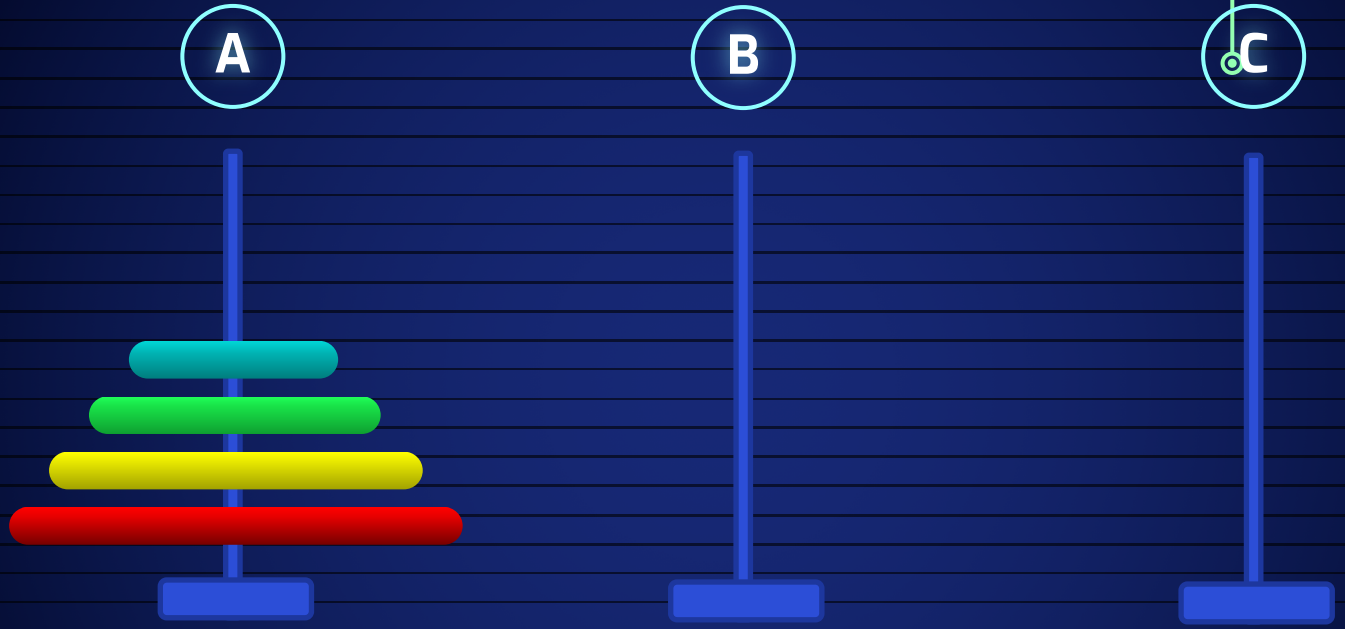
$$7 + 2 + 1 + 3 = 13$$ Biaya

Bagian 2

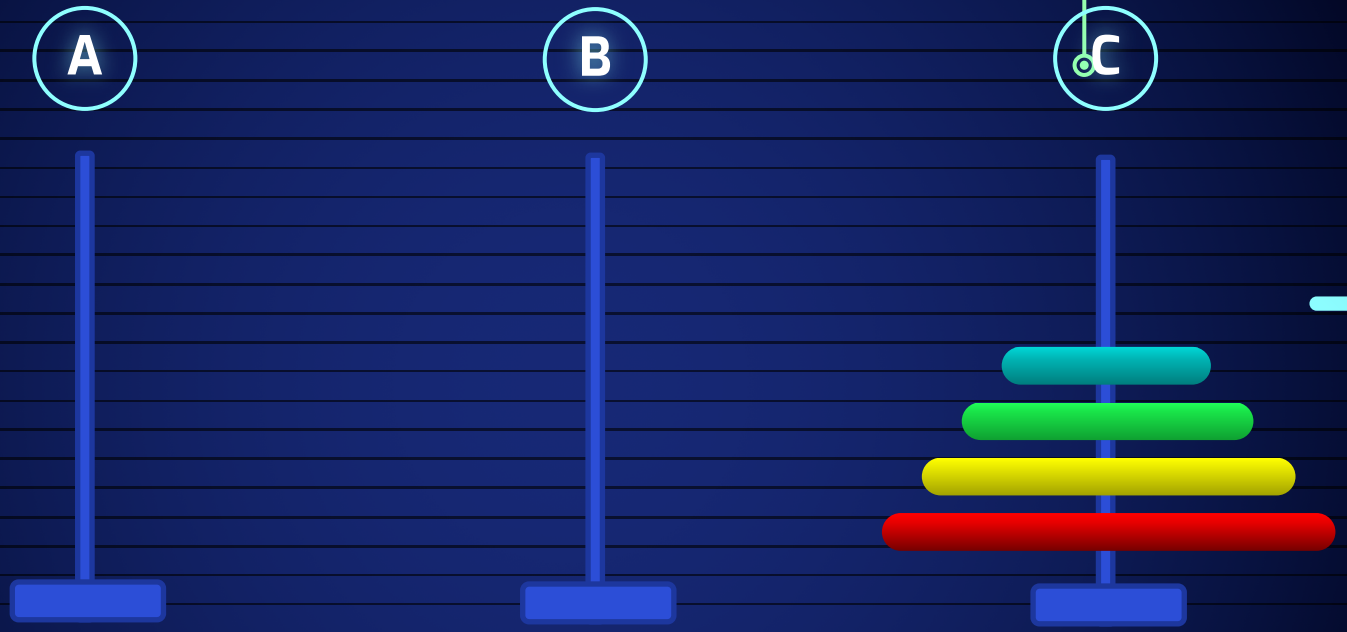
02

TOWER OF HANOI

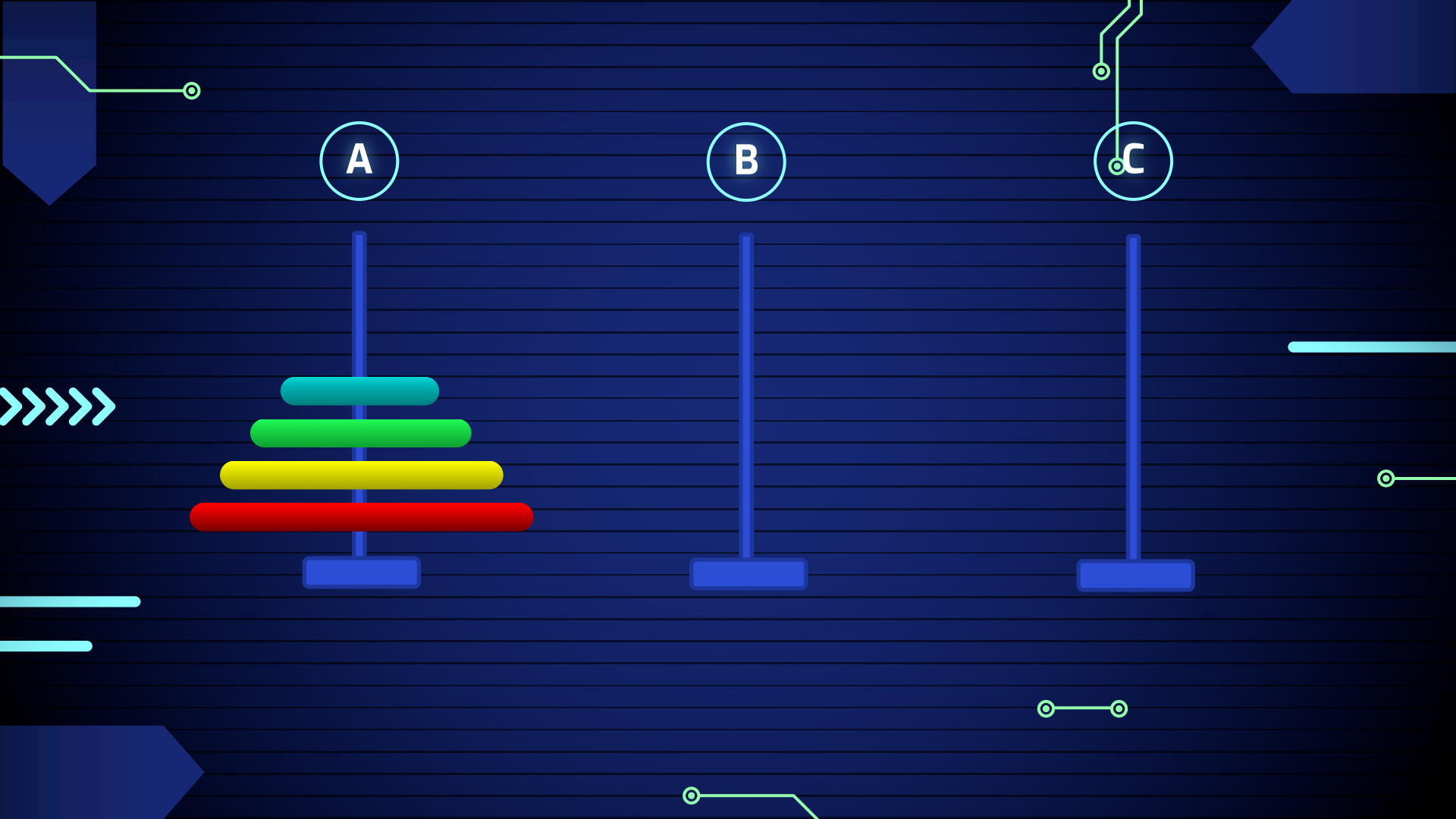
ILUSTRASI

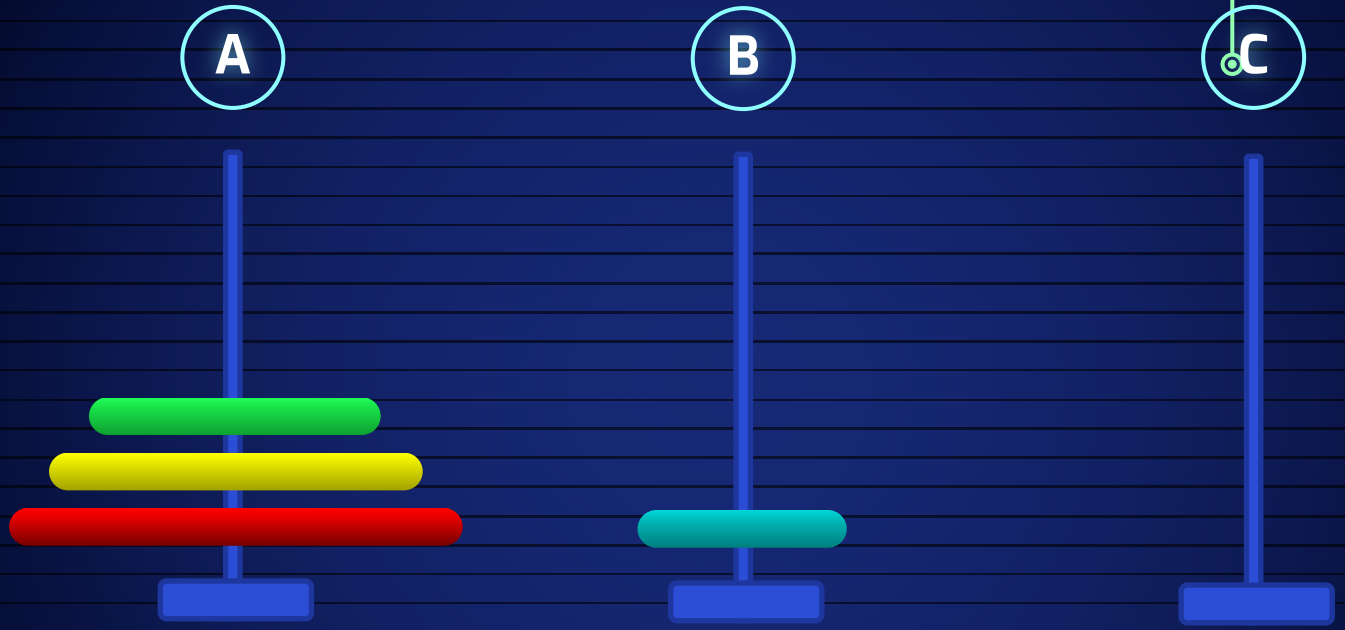


SEMUA Cakram DI A MOVE C

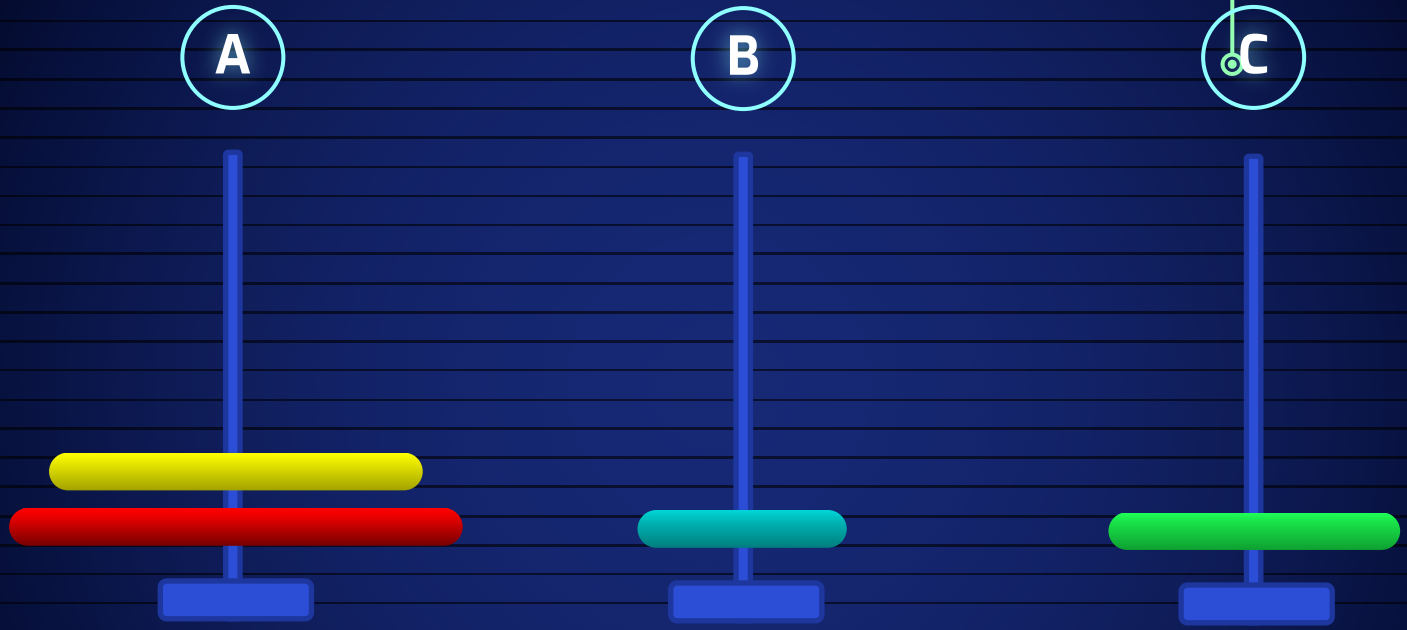


SEMUA Cakram DI C

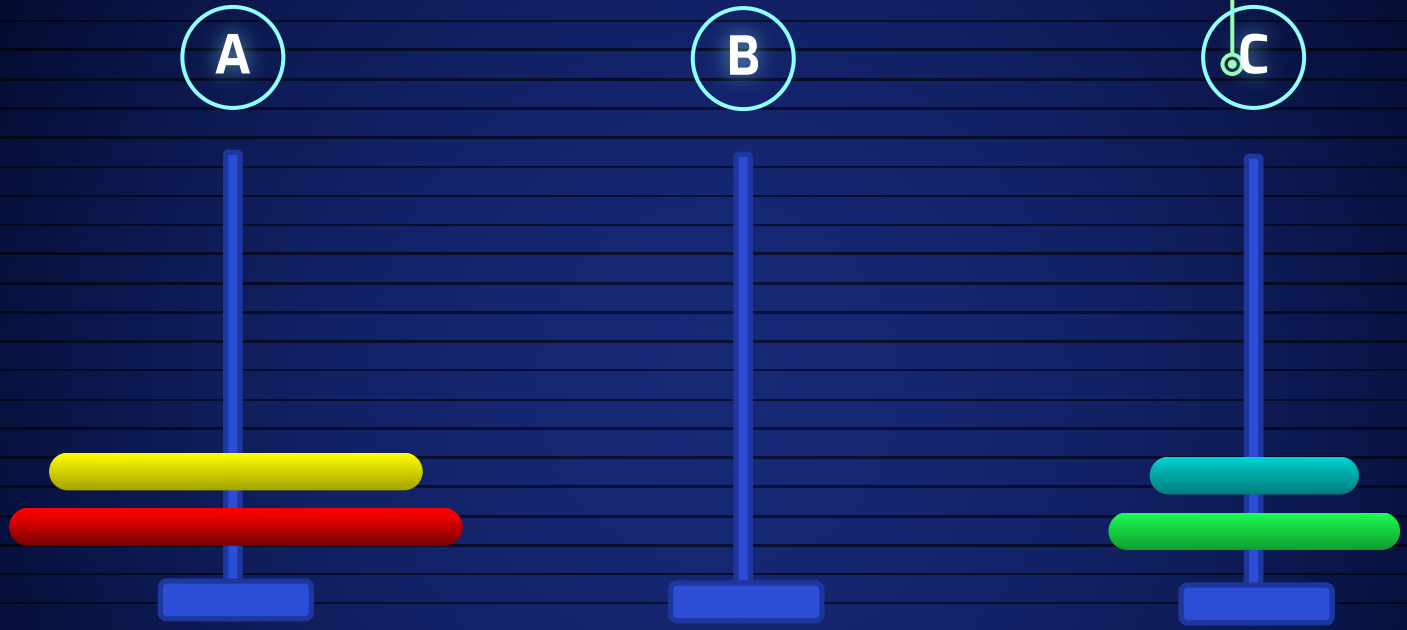

A
B
C



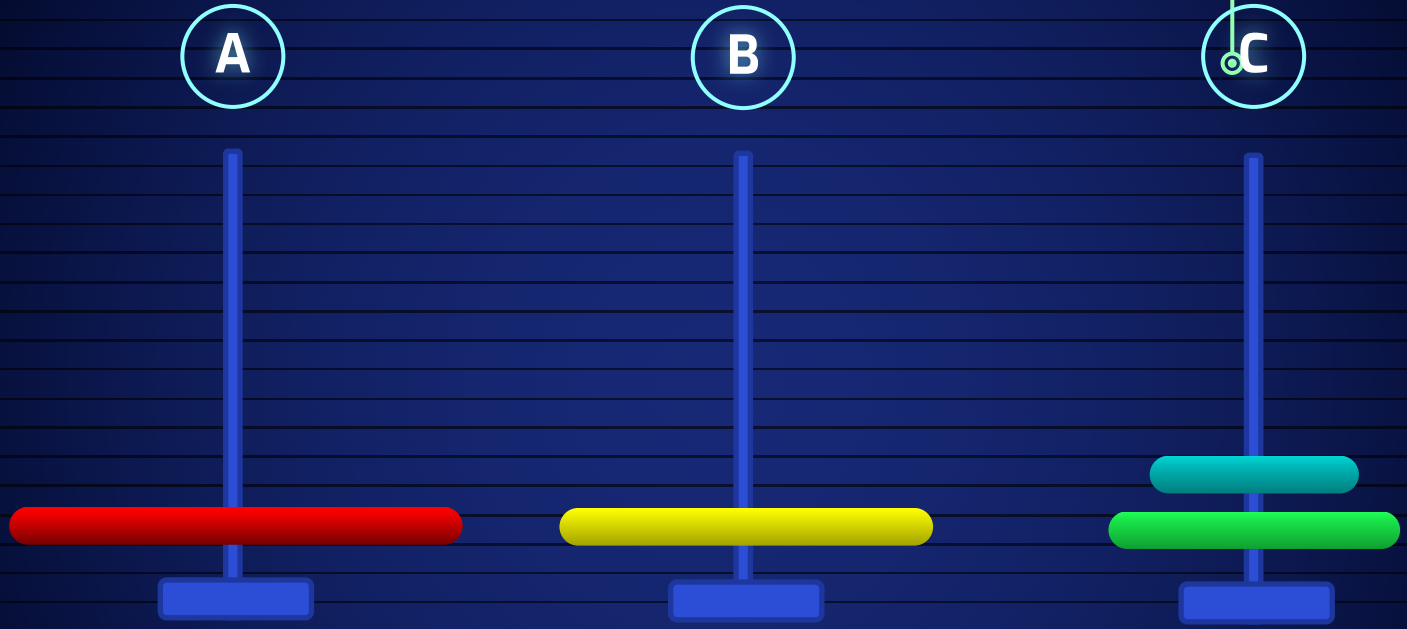
Cakram 1 MOVE Dari A → B



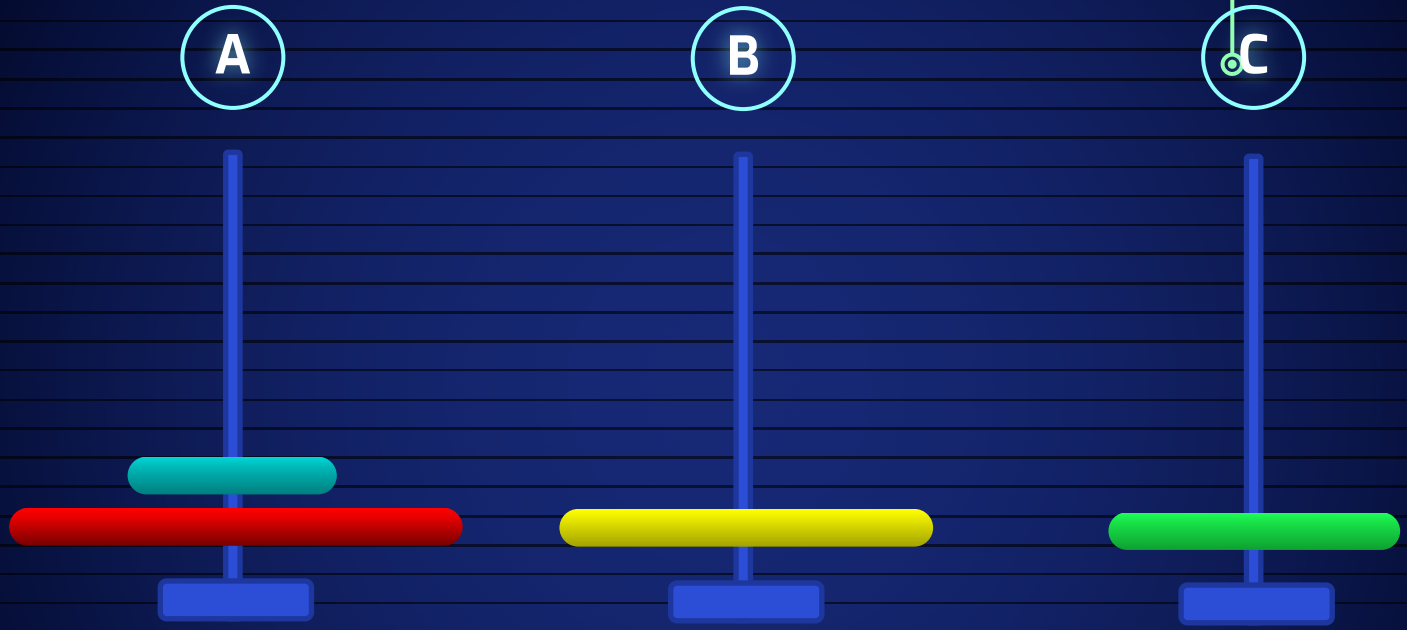
Cakram 2 MOVE Dari A → 2



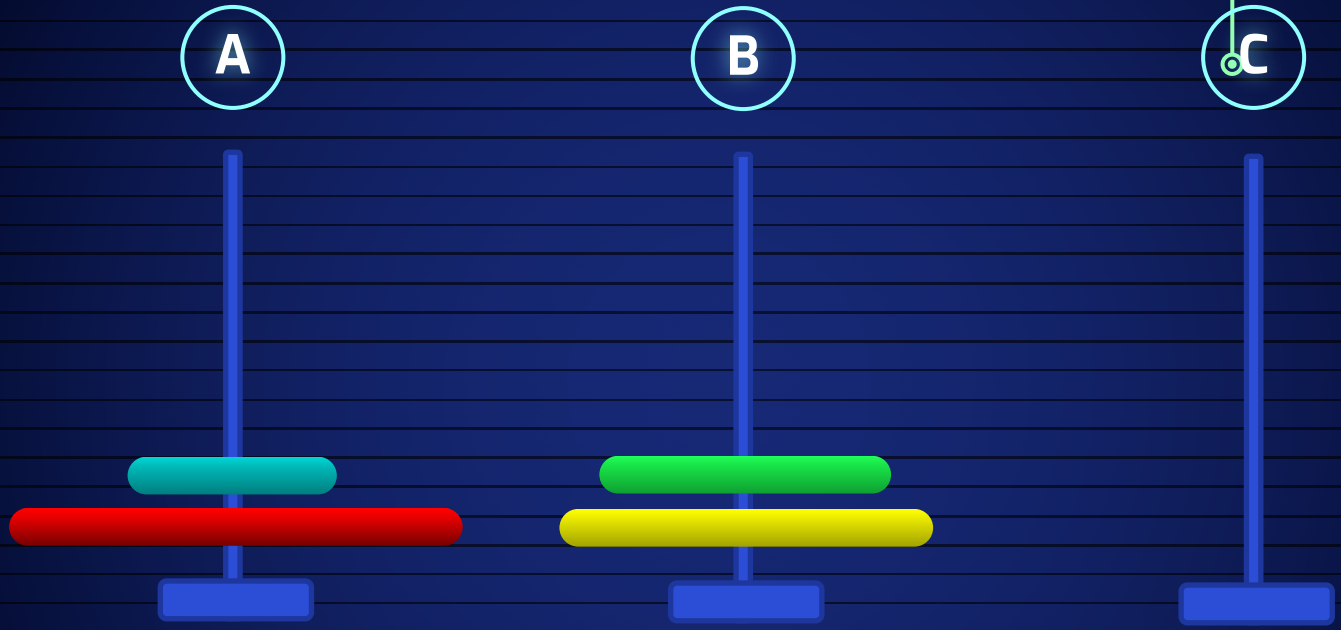
Cakram 1 MOVE Dari B → C



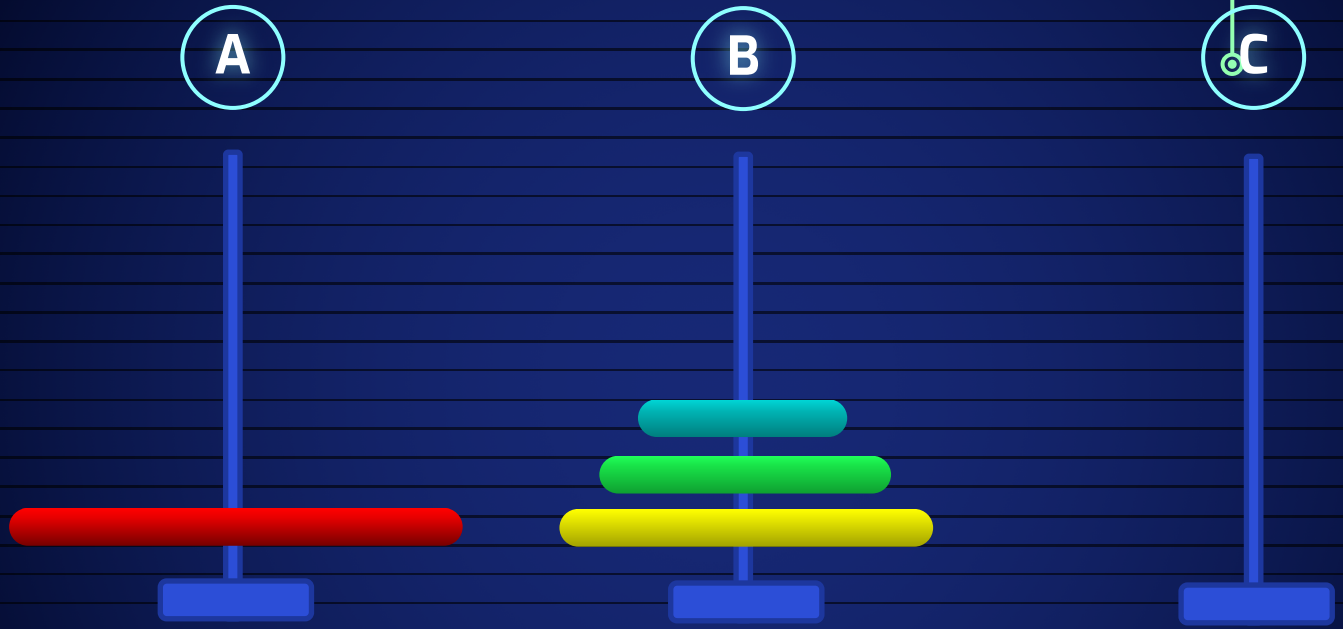
Cakram 3 MOVE Dari A → B



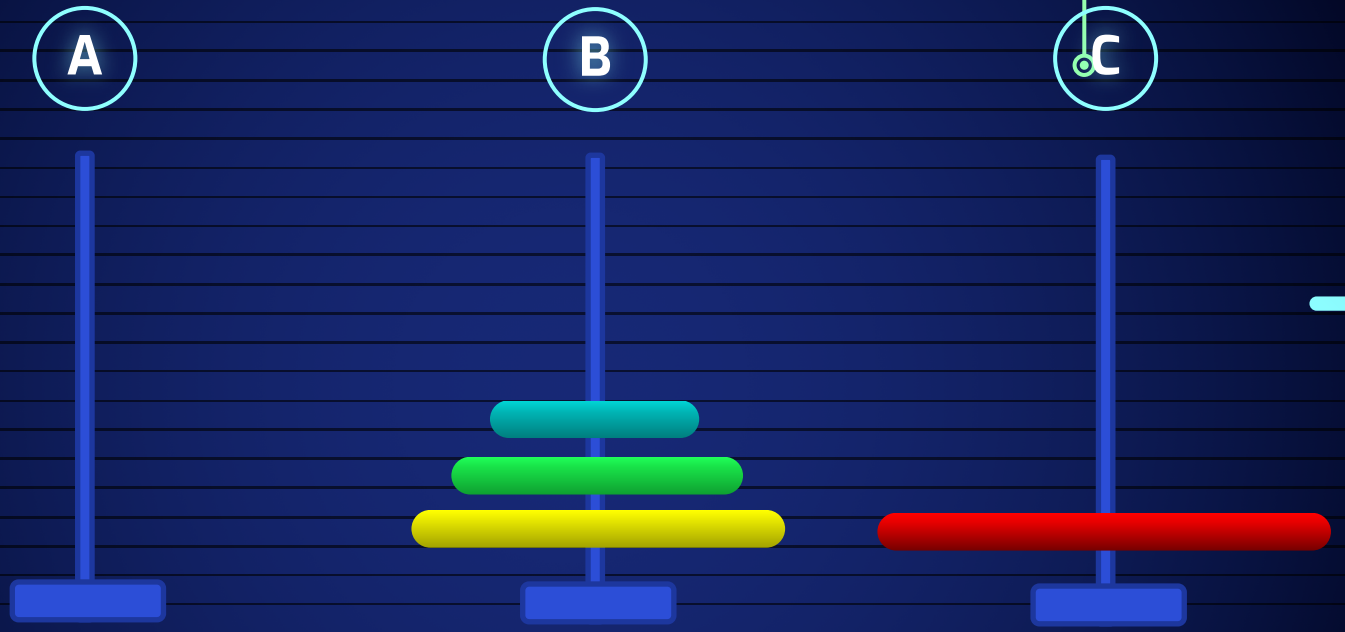
Cakram 1 MOVE Dari C → A



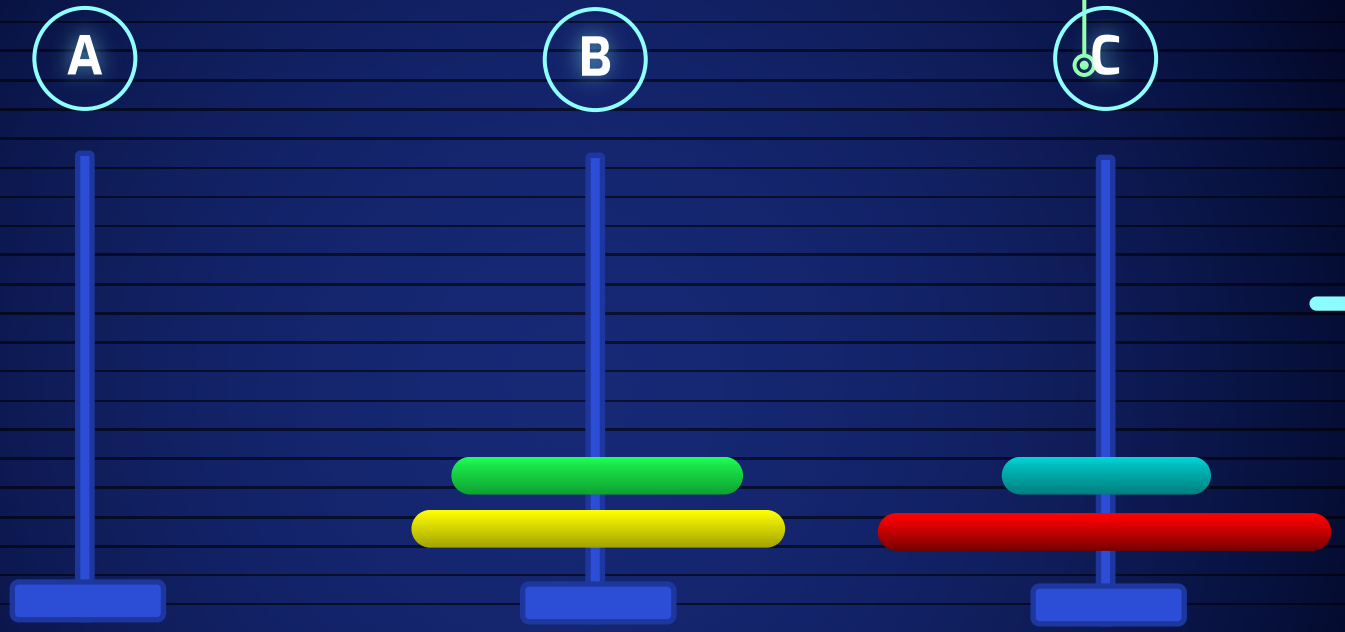
Cakram 2 MOVE Dari C → B



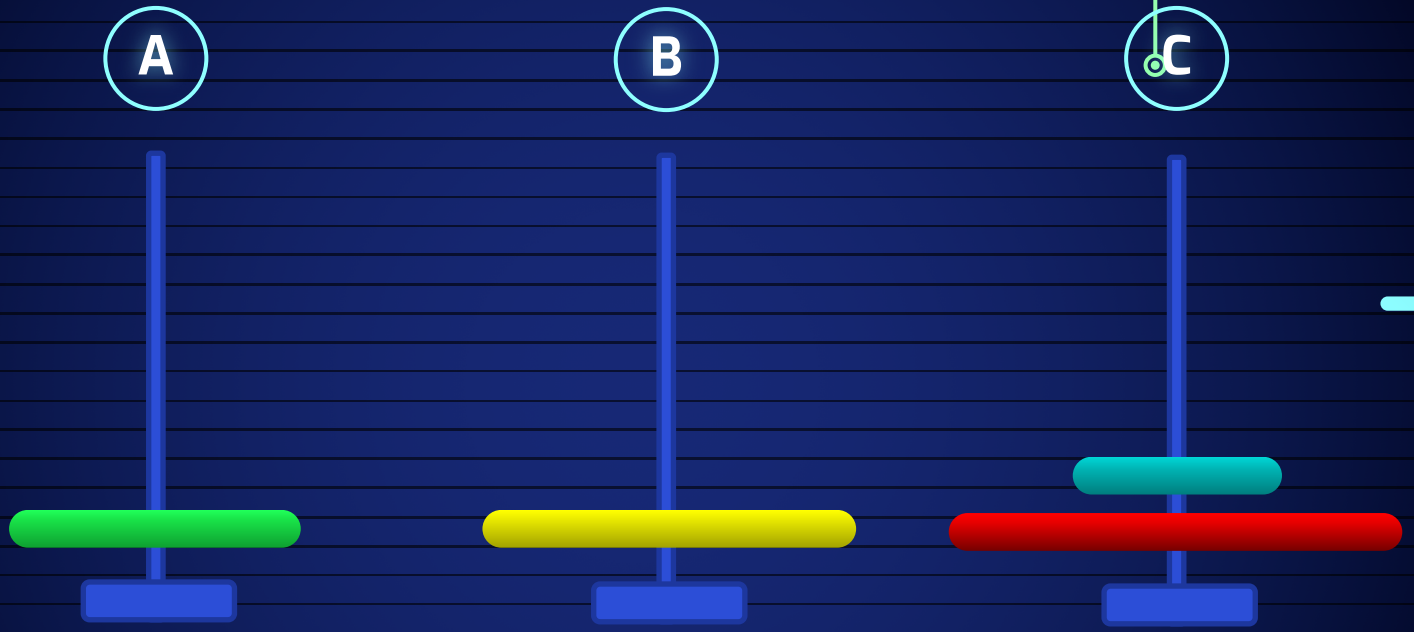
Cakram 1 MOVE Dari A → B



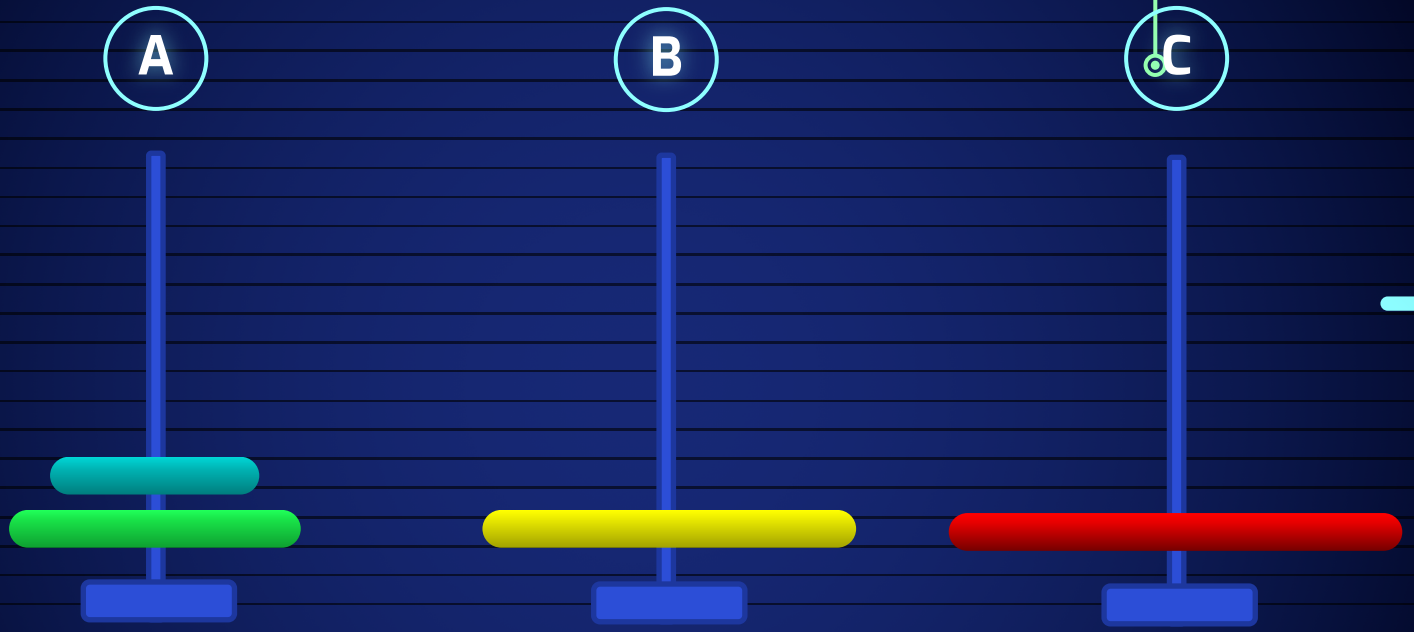
Cakram 2 MOVE Dari A → C



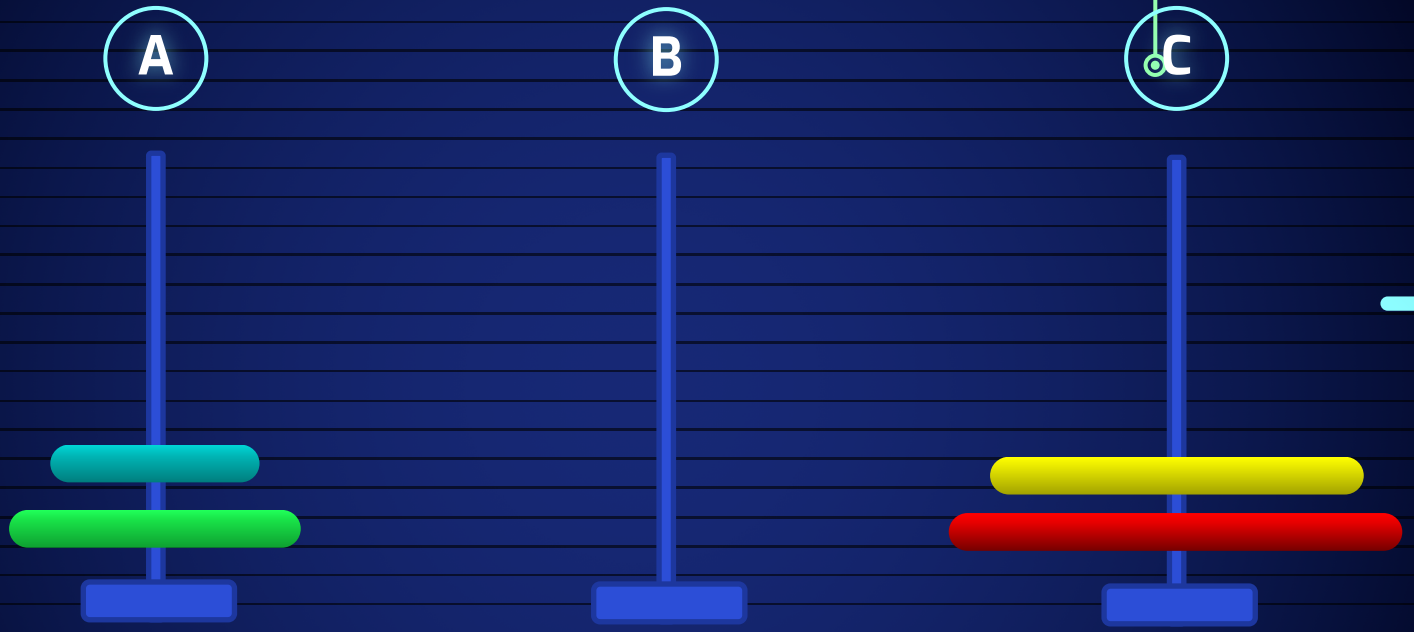
Cakram 1 MOVE Dari B → C



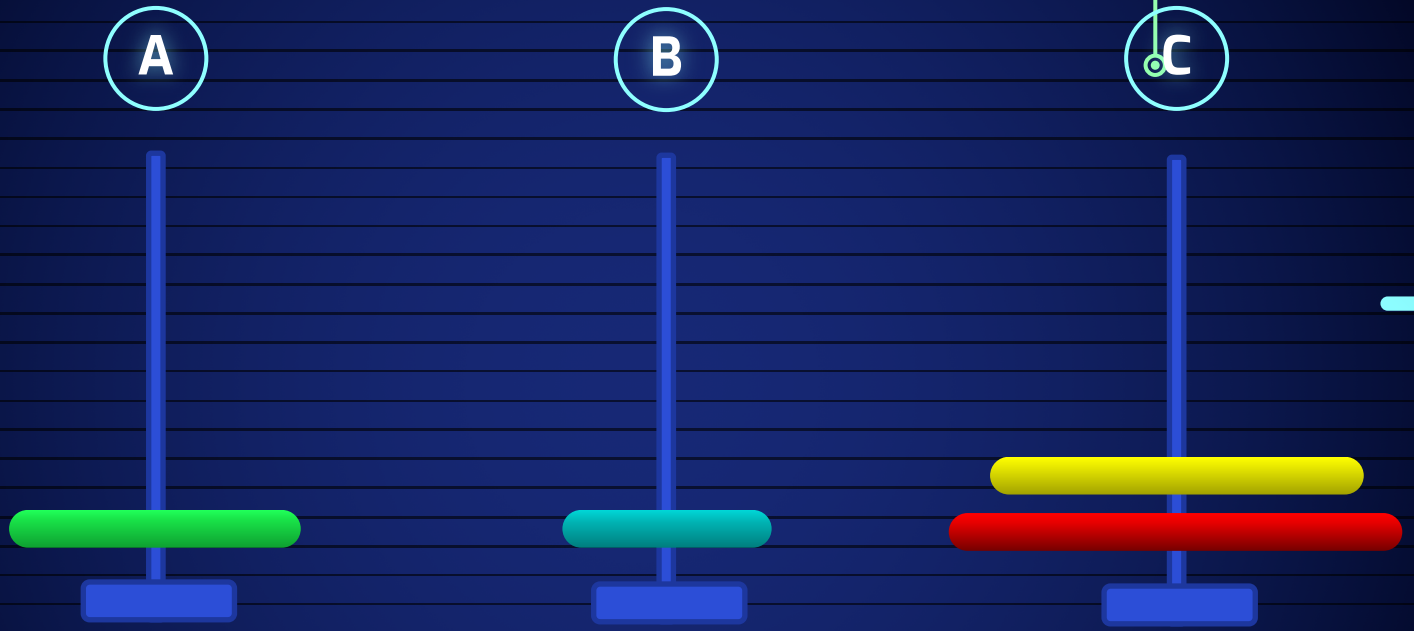
Cakram 2 MOVE Dari B → A



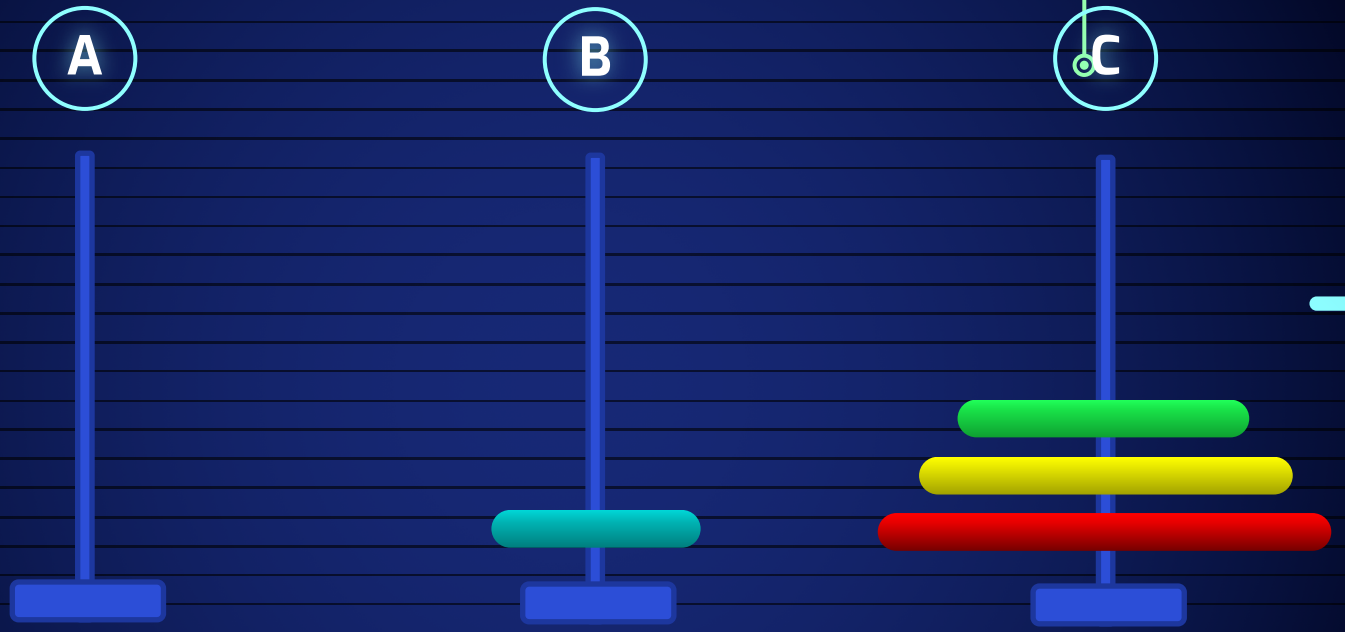
Cakram 1 MOVE Dari C → A



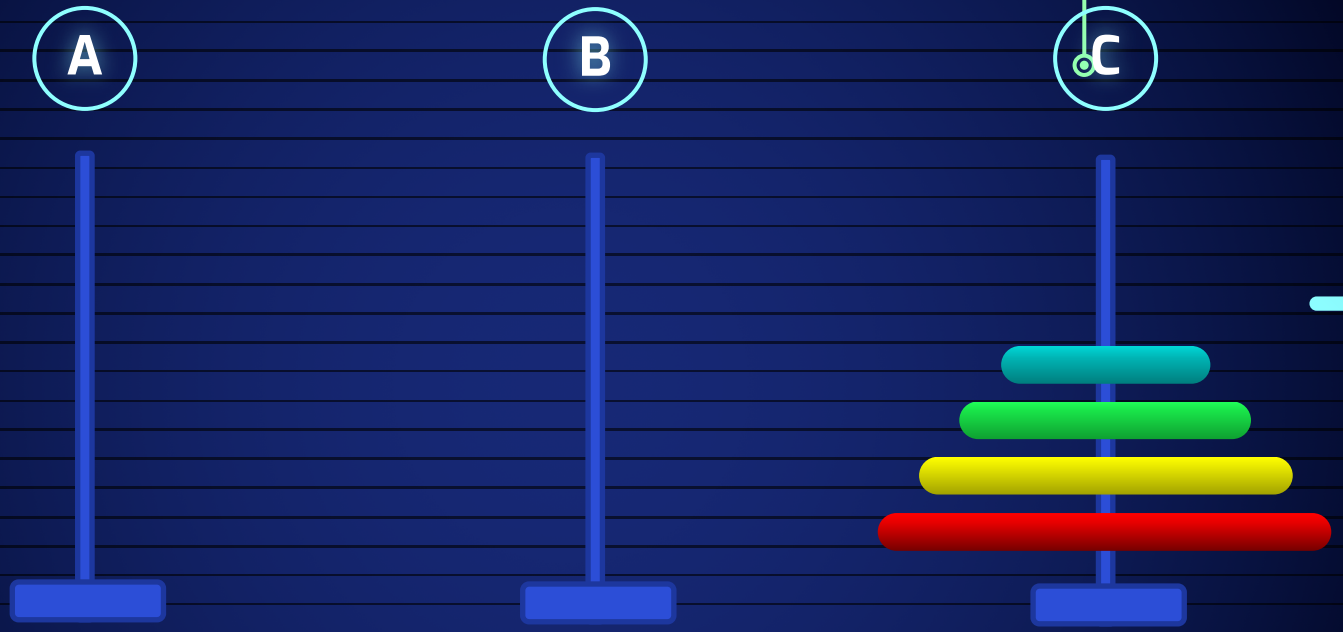
Cakram 3 MOVE Dari B → C



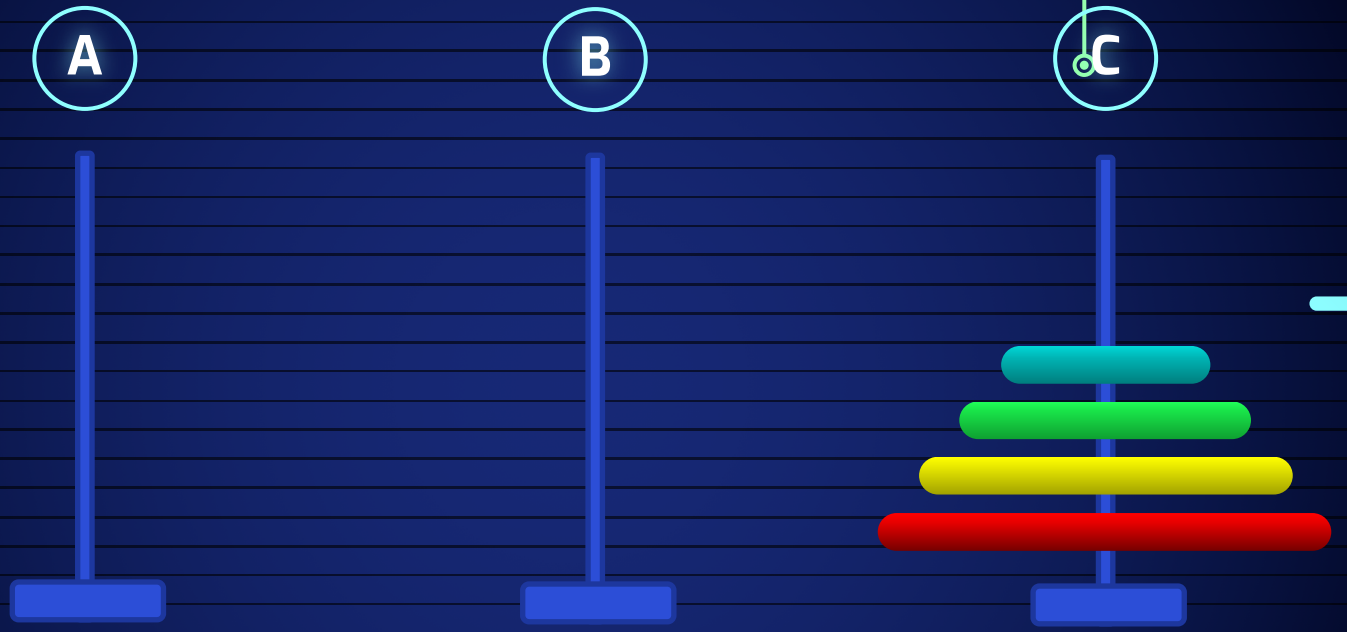
Cakram 1 MOVE Dari A → B



Cakram 2 MOVE Dari A → C



Cakram 1 MOVE Dari B → A



SEMUA Cakram DI C