



**SOLUTION
GALERIE
MARTINE
ABOUCAYA
PARIS
2022**



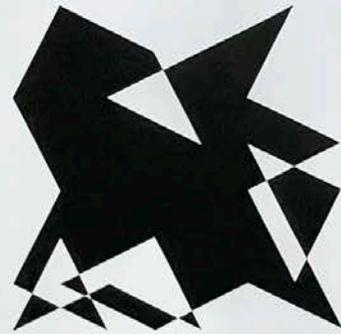
ANGELA
DETANICO
RAFAEL
LAIN

"I found myself among company one day,
where on the occasion of a game of chess someone
suggested this problem:
to have a knight visit all the squares of a chessboard,
never landing twice on the same square,
by starting from a given square."

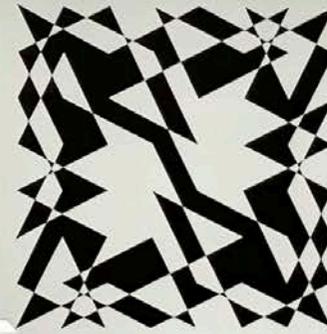
Leonhard Euler, "A solution to a curious problem which seems
not subjected to any analysis", 1759.



b
p
r
s
1
o
o
b



Solution uses the answer proposed by the Swiss mathematician Leonhard Euler to the Knight's Tour problem, in which the piece must visit all the squares of the chessboard with no repetition.



The sequence of moves is used to define closed planes that alternate in black and white shapes. 64 steps are produced as the 64 movements of the sequence go on, changing and complexifying the precedent stages.



SOLUTION 4 (steps 64 and 33) 2021 Wall painting, dimensions variable

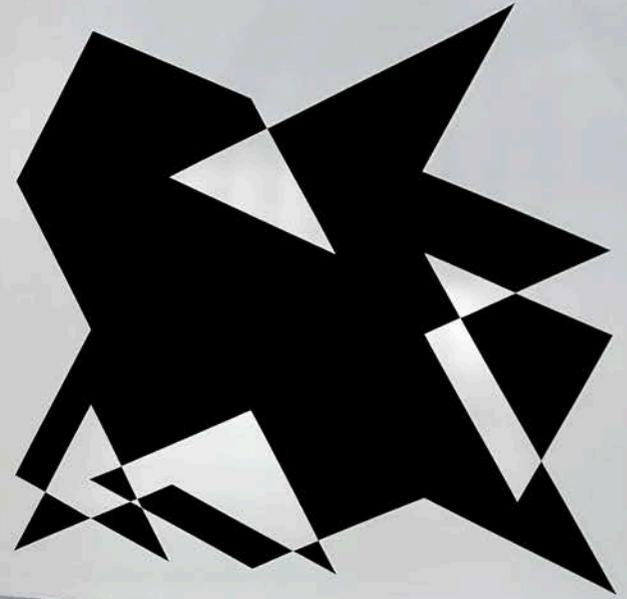






p
i
o
s
s
i
b
l
e

r
o
b
l
a
b



l
e
b
i
o
s
p s

b r
p a
l o b
e

h e r e

h h r r
e e e e
t e

h h r j r
e e e u
t e m
p

h h r j r
e e e u
t e m
t i p
m n i

h h r j r
y e e e u
t e m
l a t m
p i p
e m n i

h c h r j r
a y e e e u
e t e m
i p a m
l n t i p
s p m n i
e i

h c h r j r
a y e e e u
e t e m
i p a m
l n t a
s p i s p
t m n a
e s i p

h c h r j r
a y e e e u
e t e m
i p a m
l n t a
s e p p i s p
t t e m n a
s e n s r i p

h d c h r j r r
a y e f u e e u
n t e t e e
i p a u m
l a n t a
s e p p i s p
t t e m n a
s e n s r i p

h d c h r j r r
a y e f u e e u
n t e t e e
i p a u m w
l a n t a e e
s e p p i s p
t t e m n a r
s e n s r i p

h d c h r j r r
a y e f u e e u
n t e t e e u
i p a u b m w
l a n t a e t e
s e p p i s p
t t e m n a r
s e n s r i p

h d c h r j r r
a y e f u e e u
n t e t e e u
i p a u b m w
l a n t a e t e
s e p p i s p
t t e m n a r a
s e n s r i p



r t p j i n
s e e i u m
e p m t h
a a c h e
a r s y r e
p u p a t i e p
u t d n a e r
f s t n n e l s

JUMP 2021 Animation, loop

A poem composed by 64 letters, following the Knight's tour.

01

02

03

04

05

09

07

11

08

10

06

SOLUTION 4 Step 9 (A8)



01 20 15
19 16
21 02 17 14 08
03 18 09 13
22 12 07 10
25 04
23 27 11 06
26 24 05



14 19
15 18
13 17 20
16 25 21
12 22 24
09 05
11 04 07 02 23
08 10 03 06 01

SOLUTION 4 Step 25 (H1)



33		05	28	31	24		26
06	11	32			27	30	23
			04	29		25	
10	07	12				22	
13		09	18	03			
08		14			17	02	21
			16	19			
	15					20	01

SOLUTION 4 Step 33 (H1)



		21			02			
20	15							03
			22					01
16	19	14						04
13		17	08	23				
18	33	12	29		09	24		05
	28	31	10	07	26			
32	11		27	30		06		25



SOLUTION 4 Step 33 (G6)

01	20	37	60	63	56	15	58
38	43	64	19	16	59	62	55
21	02	17	36	61	14	57	08
42	39	44	03	18	09	54	13
45	22	41	50	35	12	07	10
40	25	46	29	04	49	34	53
23	30	27	48	51	32	11	06
26	47	24	31	28	05	52	33







2022