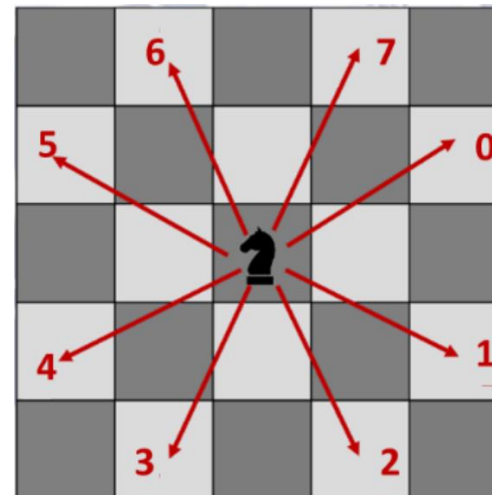
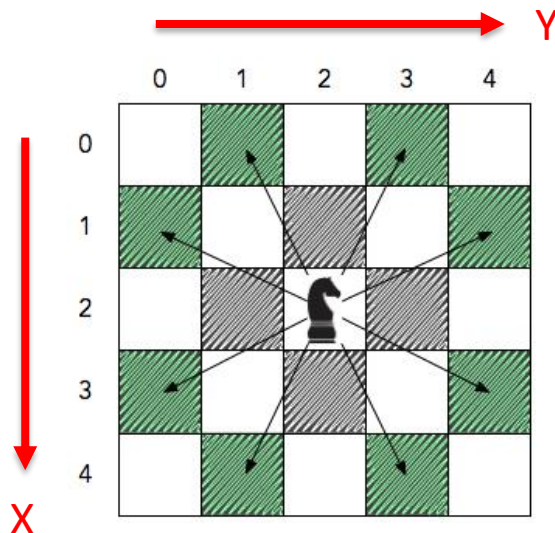


# Training1 Exercise

# Exercise1 Knight's Tour

# Exercise1

- You will get a halfway toured chessboard with the number of knight's moves, and try to traverse all the block in the chess.
- Knight visits every square exactly once.
- In every move, the knight has 8 moving directions.



# Exercise1 Back Trace

1	16	11	22	3
10	21	2	17	12
15		19	4	7
20	9	6	13	18
	14		8	5

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

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

## Exercise2 Input File

- Input file (case1.txt, case2.txt, case3.txt)
  - A. Input file has a number of whole series at first line.
  - B. The others represents the chess boards blocks which has been toured.
  - C. Left one represents x coordinate, right one represents y coordinate.
  - D. Using argv[1].

1	20
2	0 0
3	1 2
4	0 4
5	2 3
6	4 4
7	3 2
8	2 4
9	4 3
10	3 1
11	1 0
12	0 2
13	1 4
14	3 3
15	4 1
16	2 0
17	0 1
18	1 3
19	3 4
20	2 2
21	0 3

## Exercise2 Output File

- Output (any name you choose)
  - A. Output shows the answer of whole chess boards blocks that the knight toured in chosen case, including the steps which has been given.
  - B. Left one represents x coordinate, right one represents y coordinate.
  - C. Using argv[2].

1	0	0
2	1	2
3	0	4
4	2	3
5	4	4
6	3	2
7	2	4
8	4	3
9	3	1
10	1	0
11	0	2
12	1	4
13	3	3
14	4	1
15	2	0
16	0	1
17	1	3
18	3	4
19	2	2
20	0	3
21	1	1
22	3	0
23	4	2
24	2	1
25	4	0

# Exercise1 C++ Program and Verifier

`./a.out <input.txt> <output.txt>`

EX: `./a.out case1.txt output1.txt`

```
21:13 bigdpsot@vda04 [~/Training_T/HW1_Knight] >$ ./a.out case1.txt output.txt
```

`./verifier <input.txt> <output.txt>`

EX: `./verifier case1.txt output1.txt`

```
21:22 bigdpsot@vda04 [~/Training_T/HW1_Knight] >$ ./verifier case1.txt output.txt  
Verification success!
```