

I



cyan

O



yellow

T



violet

Z



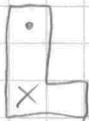
red

S



green

L



orange

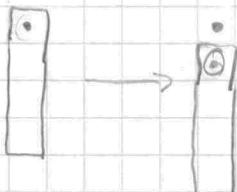
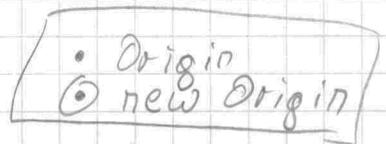
3



blue



draw: 0,0; 0,1; 0,2; 0,3

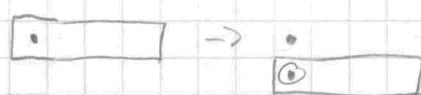


move down, $0^\circ + 180^\circ$

set: 0,4

offset: 0,1

reset: 0,0

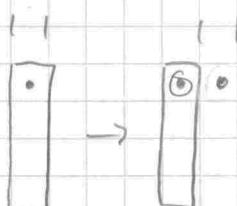


move down, $90^\circ + 270^\circ$

set: 0,1; 1,1; 2,1; 3,1

reset: 0,0; 1,0; 2,0; 3,0

offset: 0,1



move left $0^\circ + 180^\circ$

set: -1,0; -1,1; -1,2; -1,3

reset: 0,0; 0,1; 0,2; 0,3

offset: -1,0



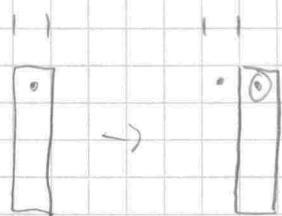
move left $90^\circ + 270^\circ$

set: -1,0

reset: 3,0

offset: -1,0

2

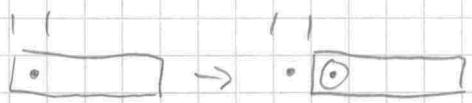


move right, $0^\circ + 180^\circ$

set: 1, 0; 1, 1; 1, 2; 1, 3

reset: 0, 0; 0, 1; 0, 2; 0, 3

offset: 1, 0

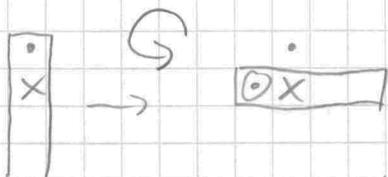


move right, $90^\circ + 270^\circ$

set: 4, 0

reset: 0, 0

offset: 1, 0



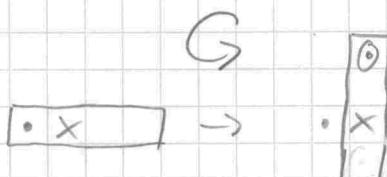
rotate left, $0^\circ + 180^\circ$

Lx Pivot

set: -1, 1; 1, 1; 2, 1

reset: 0, 0; 0, 2; 0, 3

offset: -1, 1



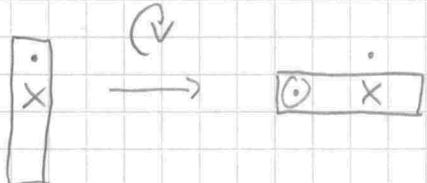
rotate left, $90^\circ + 270^\circ$

set: 1, -2; 1, -1; 1, 1

reset: 0, 0; 2, 0; 3, 0

offset: 1, +2

(3)

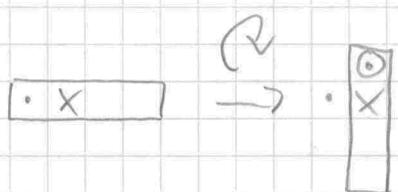


rotate right, $0^\circ + 180^\circ$

set: -2, 1; -1, 1; 1, 1

reset: 0, 0; 0, 2; 0, 3

offset: -2, 1



rotate right, $90^\circ + 270^\circ$

set: 1, -1; 1, 1; 1, 2

reset: 0, 0; 2, 0; 3, 0

offset: 1, -1



draw : $0,0; 0,1; 1,0; 1,1$

move down

$0^\circ + 90^\circ + 180^\circ + 270^\circ$



set: ~~0,0~~; ~~0,1~~; $0,2; 1,2$
reset: $0,0; 1,0$
offset: $0,1$

move left

$0^\circ + 90^\circ + 180^\circ + 270^\circ$



set: $-1,0; -1,1$
reset: $1,0; 1,1$
offset: $-1,0$

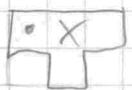
move right



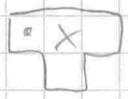
set: $2,0; 2,1$
reset: $0,0; 0,1$
offset: $1,0$

no notations

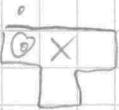
(5)



draw: 0,0; 1,0; 2,0; 1,1



→

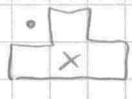


move down, 0°

set: 0,1; 2,1; 1,2

reset: 0,0; 1,0; 2,0

offset: 0,1



→

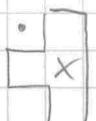


move down, 180°

set: 0,2; 1,2; 2,2

reset: 1,0; 0,1; 2,1

offset: 0,1



→

move down, 90° ✓

set: 0,2; 1,3

reset: 1,0; 0,1

offset: 0,1



→

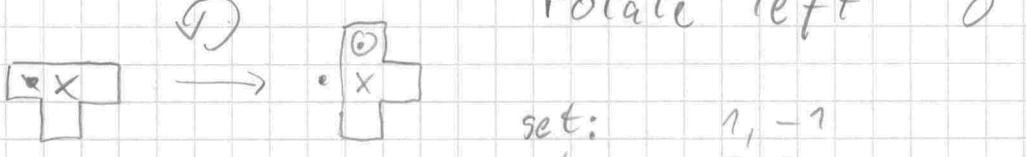
move down, 270° ✓

set: 0,3; 1,2

reset: 0,0; 1,1

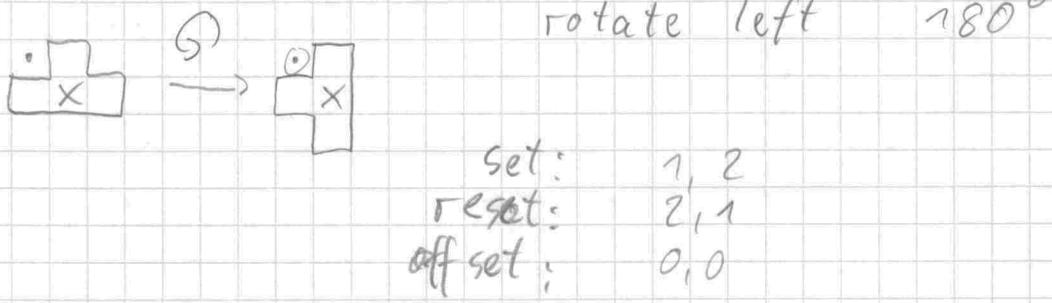
offset: 0,1

(6)



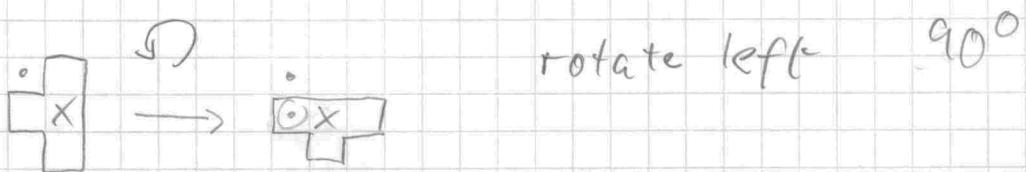
rotate left 0°

set: 1, -1
 reset: 0, 0
 offset: 1, -1



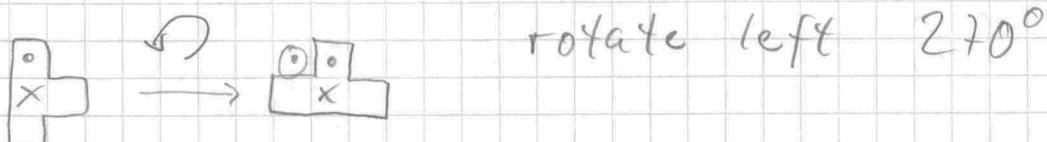
rotate left 180°

set: 1, 2
 reset: 2, 1
 offset: 0, 0



rotate left 90°

set: 2, 1
 reset: 1, 0
 offset: 0, 1



rotate left 270°

set: -1, 1
 reset: 0, 2
 offset: -1, 0

(7)



move left, 0°

set: $-1, 0; 0, 1$

reset: $1, 1; 2, 0$

offred: $-1, 0$



move left,

270°

set: $-1, 0; -1, 1; -1, 2$

reset: $0, 0; 0, 2; 1, 1$

offred: $-1, 0$



move left, 180°

set: $-1, 1; 0, 0$

reset: $1, 0; 2, 1$

offred: $-1, 0$



move left,

90°

set: $0, 0; -1, 1; 0, 2$

reset: $1, 0; 1, 1; 1, 2$

offred: $-1, 0$





set: 3, 0 ; 2, 1
 reset: 0, 0 ; 1, 1
 offset: 1, 0



set: 2, 0 ; 2, 1 ; 2, 2
 reset: 0, 1 ; 1, 0 ; 1, 2
 offset: 1, 0



set: 3, 1 ; 2, 0
 reset: 0, 0 ; 0, 1 ; 1, 0
 offset: 1, 0



set: 1, 0 ; 1, 2 , 2, 1
 reset: 0, 0 ; 0, 1 ; 0, 2
 offset: 1, 0





rotate right, 0°

ref: 1, -1

reset: 2, 0

offset: 0, -1



rotate right, 90°

ref: 2, 1

reset: 1, 2

offset: 0, 0

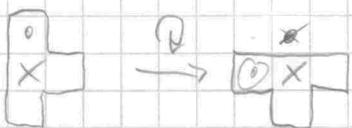


rotate right, 180°

set: 1, 2

reset: 0, 1

offset: 1, 0



rotate right, 270°

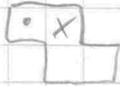
set: -1, 1

reset: 0, 0

offset: -1, 1

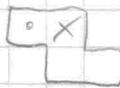


(10)



draw

0,0 ; 1,0 ; 1,1 ; 2,1



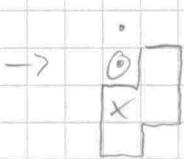
down, 0° , 180°

set: 0,1 ; 1,2 ; 2,2

offred:

Reset: 0,0 ; 1,0 , 2,1

0,1

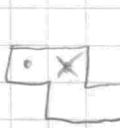


down, 90° , 270°

set: 1,2 ; 0,3

offred: 0,1

reset: 1,0 ; 0,1



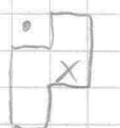
+ left

rotate right, 0° , 180°

set: 1,-1 ; 0,1

reset: 2,1 ; 1,1

offred: 0,-1



+ left

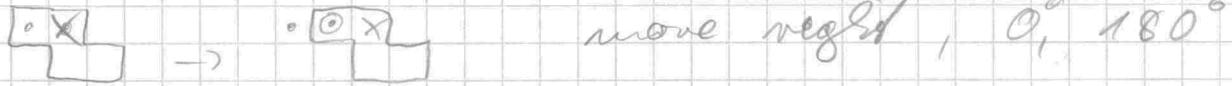
rotate right, 90° , 270°

set: 0,0 ; 2,1

reset: 0,2 ; 0,1

offred: 0,0

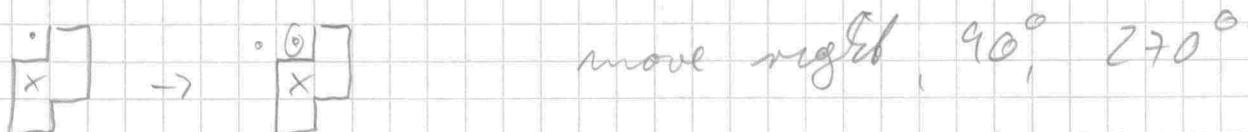
(11)



set : 3, 1 ; 2, 0

reset : 0, 0 ; 1, 1

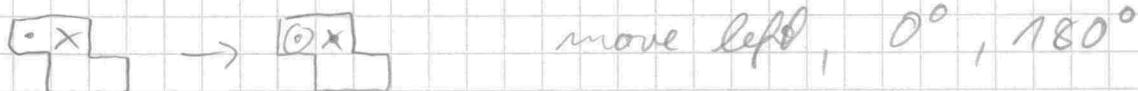
offset : 1, 0



set : 2, 0 ; 2, 1 ; 1, 2

reset : 0, 1 ; 0, 2 ; 1, 0

offset : 1, 0



set : -1, 0 ; 0, 1

reset : 1, 0 ; 2, 0

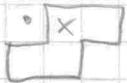
offset : -1, 0



set : -1, 1 ; -1, 2 ; 0, 0

reset : 1, 0 ; 1, 1 ; 0, 2

offset : -1, 0



draw

0, 1 ; 1, 1 ; 1, 0 ; 2, 0



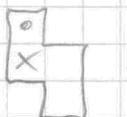
down

0° , 180°

set: 0, 2 ; 1, 2 ; 2, 1

reset: 0, 1 ; 1, 0 ; 2, 0

offset: 0, 1

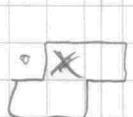


down, 90° , 270°

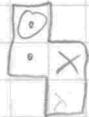
set: 0, 2 ; 1, 3

reset: 0, 0 ; 1, 1

offset: 0, 1



R



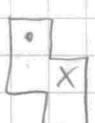
+ left

rotate right 0° , 180°

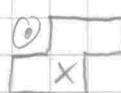
set: 0, 0 ; 0, -1

reset: 0, 1 ; 2, 0

offset: 0, -1



R



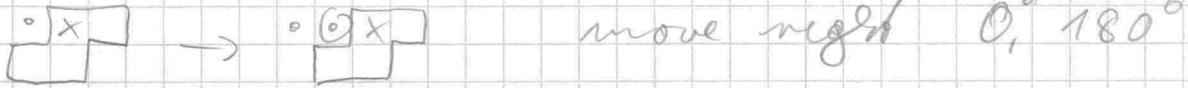
+ left

rotate right 90° , 270°

set: 1, 0 ; 2, 0

reset: 0, 0 ; 1, 2

offset: 0, 0



move right, $0^\circ, 180^\circ$

Set: $2,1 ; 3,0$

reset: $1,0 ; 0,1$

offred: $1,0$



move right, $90^\circ, 270^\circ$

Set: $1,0 ; 2,1 ; 2,2$

reset: $0,0 ; 0,1 ; 1,2$

offred: $1,0$



move left, $0^\circ, 180^\circ$

Set: $0,0 ; -1,1$

reset: $2,0 ; 1,1$

offred: $-1,0$



move left, $90^\circ, 270^\circ$

Set: $-1,0 ; -1,1 ; 0,2$

reset: $0,0 ; 1,1 ; 1,2$

offred: $-1,0$



draw

0,0; 0,1; 0,2; 1,2



down 0°

set: 0,3; 1,3

rest: 0,0; 1,2

offset: 0,1



down 90°

set: 1,1; 2,1; 0,2

rest: 0,0; 1,0; 2,0

offset: 0,1

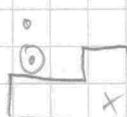


down 180°

set: 0,1; 1,3

rest: 0,0; 1,0

offset: 0,1



down 270°

set: 0,2; 1,2; 2,2

rest: 2,0; 0,1; 1,1

offset: 0,1



move right, 0°
set: 1, 0; 1, 1; 2, 2
reset: 0, 0; 0, 1; 0, 2
offset: 1, 0



move right, 270°
set: 3, 0; 3, 1
reset: 0, 1; 2, 0
offset: 1, 0



move right, 180°
set: 2, 0; 2, 1; 2, 2
reset: 0, 0; 1, 1; 1, 2
offset: 1, 0



move right, 90°
set: 1, 1; 3, 0
reset: 0, 0; 0, 1
offset: 1, 0



\rightarrow



move left, 0°

set: $-1, 0; -1, 1; -1, 2$

reset: $0, 0; 0, 1; 1, 2$

offset: $-1, 0$



move left, 270°

set: $-1, 1; 1, 0$

reset: $2, 0; 2, 1$

offset: $-1, 0$



move left, 180°

set: $0, 1; 0, 2; -1, 0$

reset: $1, 0; 1, 1; 1, 2$

offset: $-1, 0$

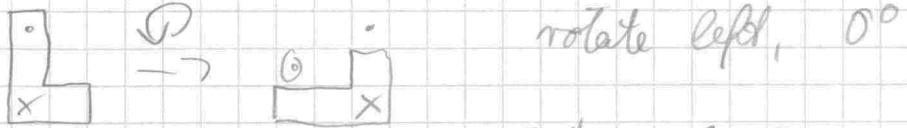


move left, 90°

set: $-1, 0; -1, 1$

reset: $0, 1; 2, 0$

offset: $-1, 0$



rotate left, 0°

set: $-1, 2 ; -2, 2$

reset: $0, 0 ; 1, 2$

offset: $-2, 1$

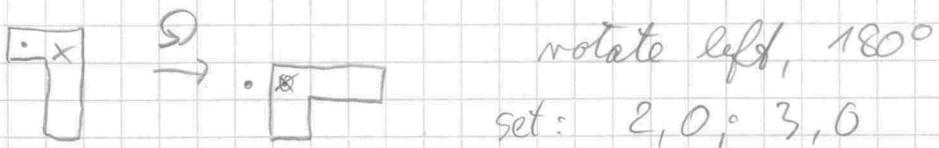


rotate left, 270°

set: $2, 2 ; 2, 3$

reset: $0, 1 ; 2, 0$

offset: $1, 1$



rotate left, 180°

set: $2, 0 ; 3, 0$

reset: $0, 0 ; 1, 2$

offset: $1, 0$



rotate left, 90°

set: $0, -1 ; 0, -2$

reset: $0, 1 ; 2, 0$

offset: $0, -2$



Q_v

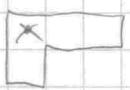


rotate right, 0°

set: 0,3 ; 2,2

read: 0,0 ; 0,1;

offset: 0,2



Q_v



rotate right, 90°

set: -1,0 ; 0,2

read: 1,0 ; 2,0

offset: -1,0



Q_v



rotate right, 180°

set: -1,0 ; 1,-1

read: 1,1 ; 1,2

offset: -1,-1



Q_v.



rotate right, 270°

set: 2,-1 ; 3,1

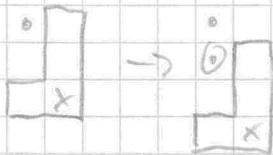
read: 0,1 ; 1,1

offset: 2,-1



draw

0,2; 1,0; 1,1; 1,2

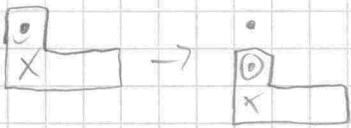


down 0°

set: 0,3; 1,3

read: 0,2; 1,0

offset: 0,1

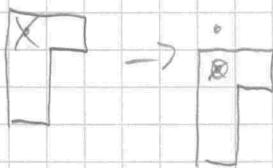


down, 90°

set: 0,2; 1,2; 2,2

read: 0,0; 1,1; 2,1

offset: 0,1

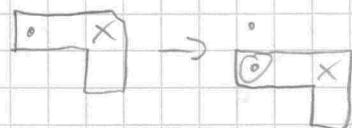


down 180°

set: 0,3; 1,1

read: 0,0; 1,0

offset: 0,1



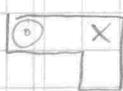
down 270°

set: 0,1; 1,1; 2,2

read: 0,0; 1,0; 2,0

offset: 0,1

(20)



rotate left, 0°

set: 1, 3 ; -1, 2

reset: 1, 0 ; 1, 1

offset: -1, 2



rotate left, 270°

set: 2, 2 ; 3, 0

reset: 0, 0 ; 1, 0

offset: 2, 0



rotate left, 180°

set: 2, 0 ; 0, -1

reset: 0, 1 ; 0, 2

offset: 0, -1



rotate left, 90°

set: -1, 1 ; 0, -1

reset: 1, 1 ; 2, 1

offset: -1, -1

(2)



move right, 0°

set: $2, 0; 2, 1; 2, 2$
reset: $1, 0; 1, 1; 0, 2$
offset: $1, 0$



move right, 270°

set: $3, 0; 3, 1$
reset: $0, 0; 2, 1$
offset: $1, 0$



move right, 180°

set: $1, 1; 1, 2; 2, 0$
reset: $0, 0; 0, 1; 0, 2$
offset: $1, 0$



move right, 90°

set: $1, 0; 3, 1$
reset: $0, 0; 0, 1$
offset: $1, 0$



move left, 0°

set: $0,0; 0,1; -1,2$

reset: $1,0; 1,1; 1,2$

offset: $-1,0$



move left, 270°

set: $-1,0; 1,1$

reset: $2,0; 2,1$

offset: $-1,0$



move left, 180°

set: $-1,0; -1,1; -1,2$

reset: $1,0; 0,1; 0,2$

offset: $-1,0$



move left, 90°

set: $-1,0; -1,1$

reset: $0,0; 2,1$

offset: $-1,0$



\xrightarrow{Q}

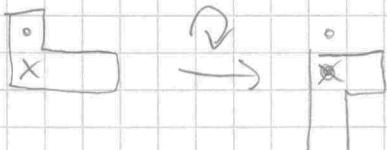


rotate right, 0°

ref: $2, 2 ; 3, 2$

reset: $1, 0 ; 0, 2$

offset: $1, 1$



\xrightarrow{Q}

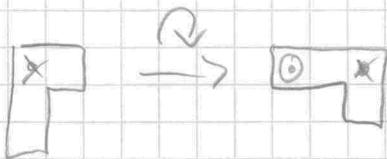


rotate right, 90°

ref: $0, 2 ; 0, 3$

reset: $0, 0 ; 2, 1$

offset: $0, 1$



\xrightarrow{Q}



rotate right, 180°

ref: $-1, 0 ; -2, 0$

reset: $1, 0 ; 0, 2$

offset: $-2, 0$



\xrightarrow{Q}



rotate right, 270°

ref: $2, -1 ; 2, -2$

reset: $0, 0 ; 2, 1$

offset: $1, -2$