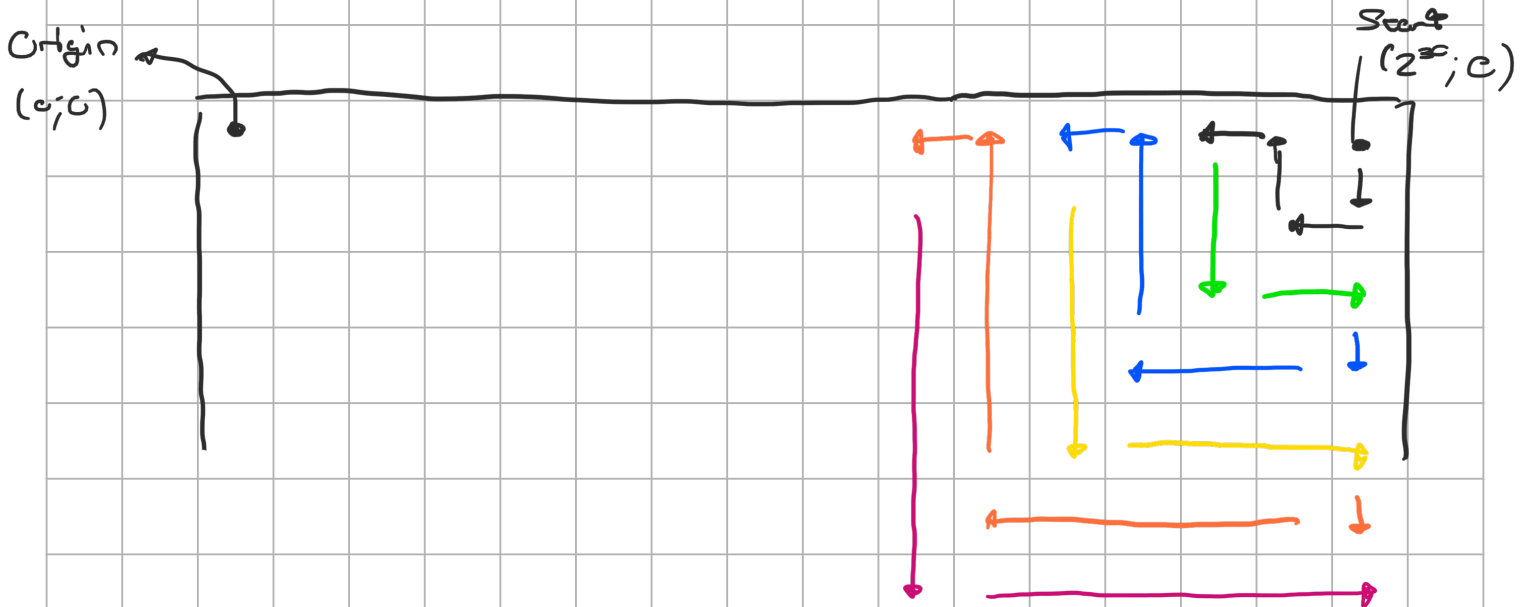


Notes:

Drone flies at 1 m/s

Size of field is 2^{30} m^2 or 1073741824 m^2



Drone Steps

$n=1$ | 1m forward
1m left
1m backward
1m left
time taken: 4s

$n=2$ | 2m forward
2m right
time taken: 4s

$n=3$ | 1m forward
3m left
3m backwards
1m left
time taken: 8s

$n=4$ | 4m forward
4m right
time taken: 8s

$n=5$ | 1m forward
 5m left
 5m backwards
 1m left

time taken: 12s

$n=6$ | 6m forward
 6m right

time taken: 12s

Pattern

When n is odd, it follows the following steps:

n | 1m forward
 n | left
 n | backwards
 1m | left

time taken: $2 + 2n$

When n is even, it follows the following steps

n | n forward
 n | right

time taken: $2n$

Test Case

Times: 11s

Result: 2 meters left
4 meters forward

Pseudo Code for calculating Time Taken
with n as argument

if n is even

return $2 \times n$

else

return $2 + (2 \times n)$

Pseudo Code for Calculating coordinates with
time as argument

$n = 1$

while true

if time < Time Taken(n)

$n++$