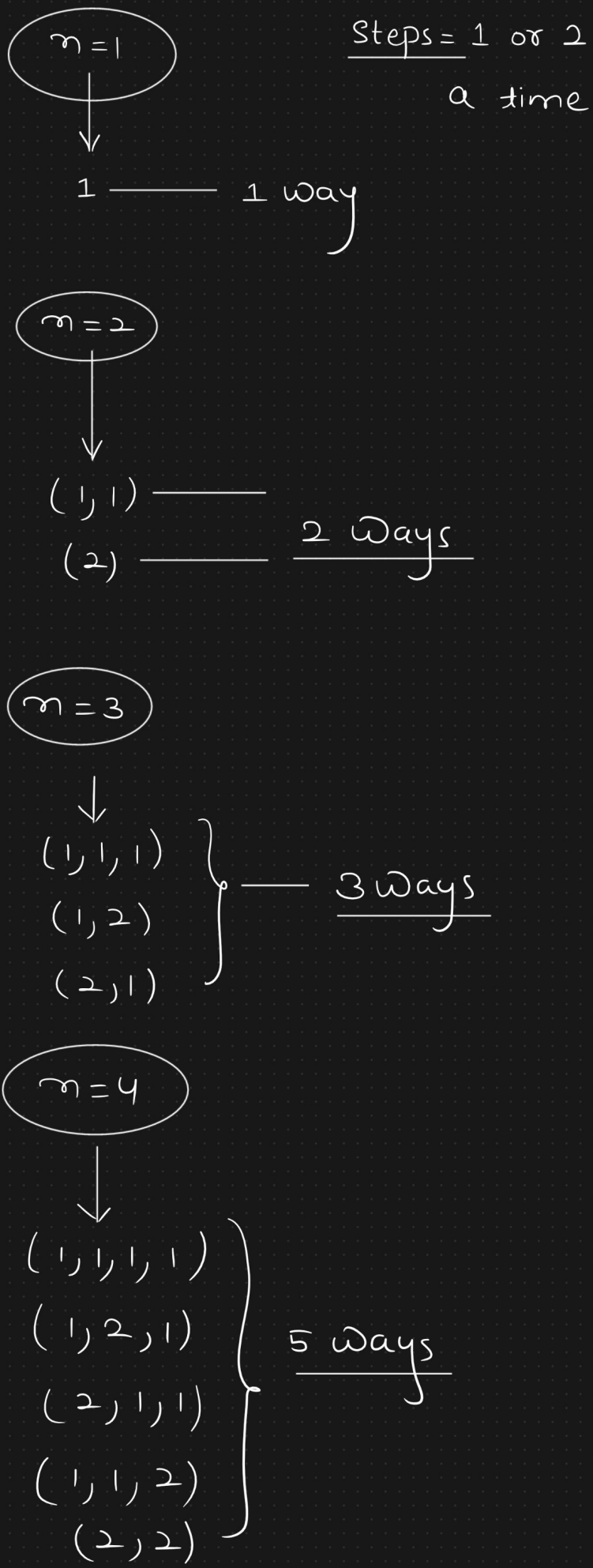
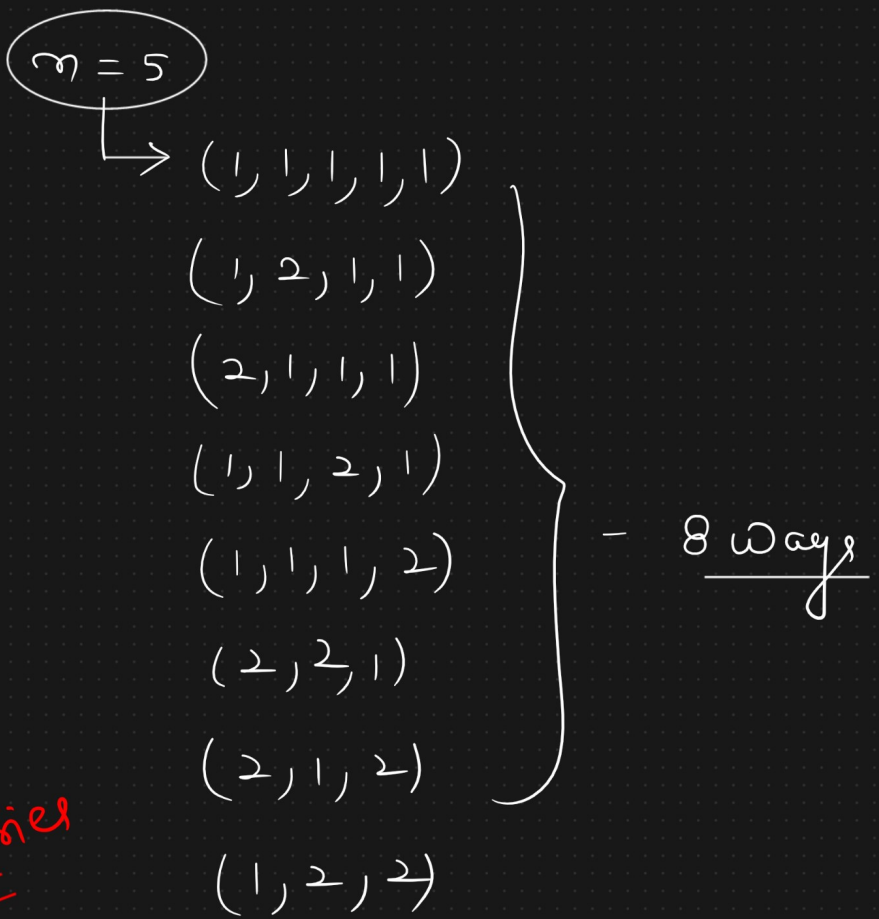
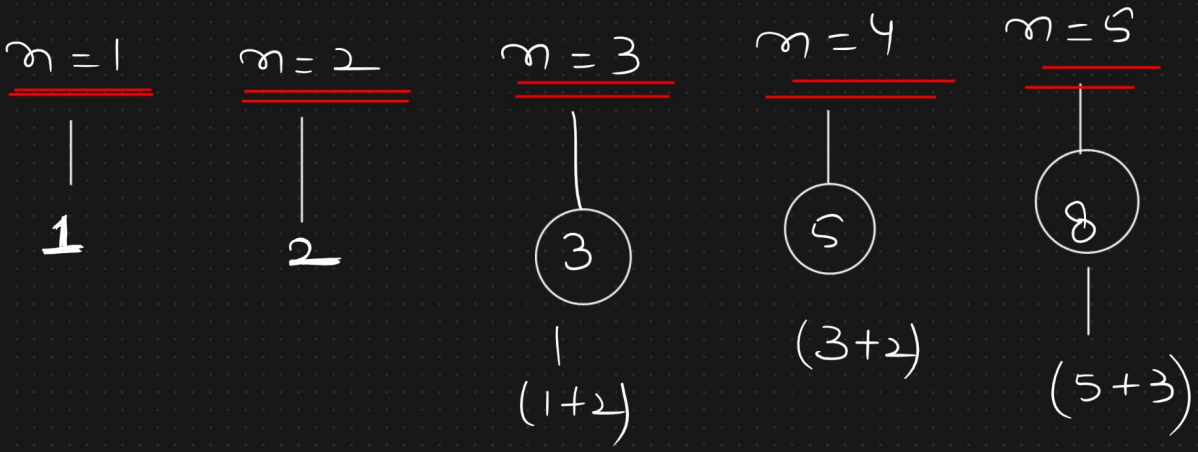

n = 1
Steps = 1 or 2 at a time
1 — 1 way
n = 2
(1,1) —
(2) — 2 ways
n = 3
(1,1,1)
(1,2)
(2,1)
— 3 ways
n = 4
(1,1,1,1)
(1,2,1)
(2,1,1)
(1,1,2)
(2,2)
5 ways



Fibonacci Series



fib(n+1) — return the number of ways

fibonacci Series

0 1 2 3 4 5 6 7

0, 1, 1, 2, 3, 5, 8, 13, - - - - -

```
n<=1
    return n;
}
else
return fib(n-1)+fib(n-2);
}
```

- Time complexity →
- Space complexity →