Subsets in C++

```
#include <iostream>
using namespace std;

int main() {
    int n = 4;
    for (int b = 0; b < (1 << n); b++) {
        cout << b << endl;
    }

    return 0;
}
```

You're generating all numbers from `0` to `2^n - 1` using bit manipulation!

🔍 Breakdown:

- `n = 4` → total combinations = `2^4 = 16`
- `(1 << n)` means `1` shifted left `n` times → equals `2^n`
- Loop runs from `0` to `15`, printing each value

🧮 Dry Run Table:

b	Binary of b
0	0000
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001
10	1010
11	1011
12	1100
13	1101
14	1110
15	1111

Output:-
0

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15