DSA through C++

Tower of hanoi

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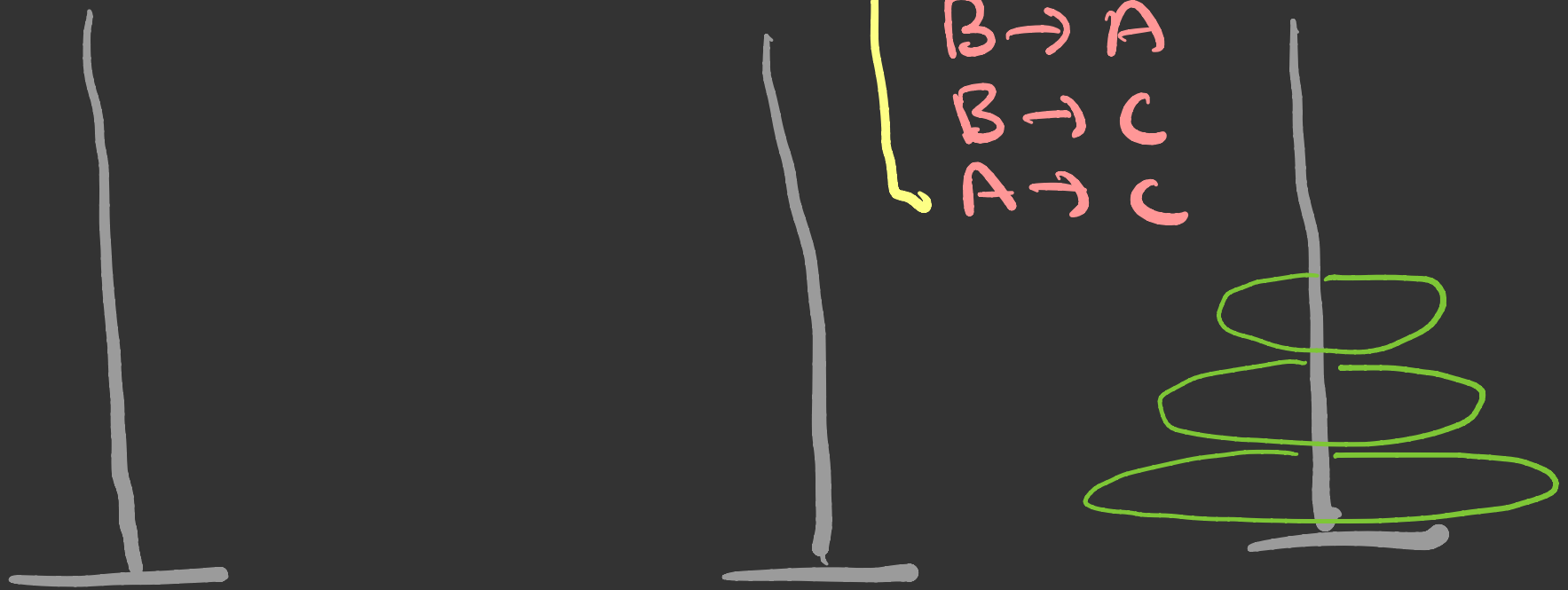
Agenda

1. Tower of Hanoi
2. Solution

TOH

7

A → C
A → B
C → B
A → C
B → A
B → C
A → C



A B C

A → B
A → C
B → C
A → B
C → A
C → B
A → B
A → C
B → C
B → A
C → A
B → C
A → B
A → C
B → C

n	moves	
3	7	$2^3 - 1$
4	15	$2^4 - 1$
5	31	$2^5 - 1$
6	63	$2^6 - 1$
7	127	$2^7 - 1$
...		
64		$2^{64} - 1$

```
void TOH (int n, char Beg, char Aux, char End)
{
    if(n>0)
    {
      TOH( n-1, Beg, End, Aux);
      cout<<"\n"<<Beg<<"->"<<End;
      TOH(n-1, Aux, Beg, End)
    }

}
```