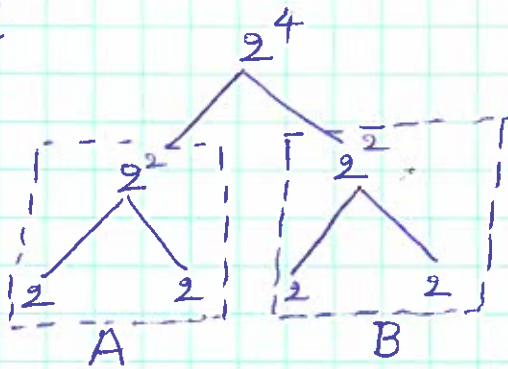


## Compute $2^4$ using Divide & Conquer

$$2^4 = 16$$

Logic:



Since  $A = B$ , we can say

$$2^4 = A * A$$

```
func( Remain )  
{
```

```
    M = Remain / 2;
```

```
    If (M > 0)
```

```
    {  
        Ret = func(M);
```

```
    RETURN Ret * Ret;
```

```
    }
```

```
    else
```

```
        RETURN 1;
```

```
}
```