

Let Exponentionion of encycles lowers fo 210 => [272+2....+2] find ab -> o(b) [1=2n] [1-d <- 0] <- 900] bans = ans +a; way learn mis ? -> to get tost solm So that TLE of a> Beteen soln ab -> o(logb) $ab \rightarrow cen$ $b \rightarrow cen$ $(ab|2)^2$ $b \rightarrow odd$ $b \rightarrow codd$ $cb \Rightarrow (ab|2)^2 \Rightarrow (ab|2)^2 \Rightarrow ab$ for ex 210 => 800n -> (210/2)2 = (25)2 = 210 2" => odd => (25)2 + 2

 $2^{5} = (2^{4}) + 2$ $(2^{2} + 2^{2}) + 2$ $(2^{3} + 2^{4}) + 2$ $(2^{3} + 2^{4}) + 2$

```
class Solution {
  public:
    int myPow(int a, int b) {
      int ans = 1;
      while(b > 0){
        if(b & 1){
            // odd
            ans = ans * a;
        }
      a = a * a;
      b >> b >> 1; // b = b / 2;
    }
  return ans;
}
```

Dan Sau 0227 824 b=> evon => a = a x a = 5 x 5 => (25) 5=6>>1 // 6=6/2 b=) even =) a = axa = 25 x 25 =) 625) a 7 P=1 => ans = ans + a => b => odd => 625 (ons) → 5².5²