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Question 28:

- $Log_2 2=1$
- $Log_2 4=2$
- $Log_2 8=3$
- So if N =2 then the result will be 1, that is why I used the divide an conquer as I divide the n every time and I make the base case the if n<2 return 0
- Adding 1, every time it divides the n to n/2

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

int log_2(double n) {
    if (n < 2)
       return 0;
    return 1 + log_2(n / 2);
}

int main()
{
   cout<< log_2(16);

    return 0;
}
```