1) (5 pts) DSN (Recursive Coding)

Write a ***recursive*** function that returns the number of bits set to 1 in the binary representation of its input parameter, *n*. For example numBitsOn(17) should return 2, since 17 in binary is 10001. **(Note: In order to receive full credit, your function's run time must be O(b), where b is the total number of bits in n. Since this isn't the bitwise operator question, you don't HAVE to use bitwise operators for full credit, but that's probably the most natural route to the solution.)**

```
int numBitsOn(int n) {




}
```