

38. Trace the recursive function $f()$, and give the output for the specified function calls:

```
int f(int n)
{
    if (n < 1)
        return 0;
    else
        return f(n/2) + 1;
}
```

What is the output for each of the following function calls?

(a) $f(15)$ **(b)** $f(8)$ **(c)** $f(3)$