

1. Compute `mystery(20)` where `mystery` is the following recursive method. Show scratchwork for full credit.

```
public static int mystery(int num)
{
    if (num > 0)
        return (num + mystery(num - 1));

    return 0;
}
```

2. Rewrite `mystery` as an iterative function as simply and as efficiently as possible.

```
public static int mystery(int num)
{
```