Part 4:
Write a MIPS assembly program named 'recursivesum.s' that *manually* computes $\sum_{i=1}^{n} i$ recursively. The C code would be:

```
int sum(int n) {
    if (n <= 0) {
        return 0;
    }

    return n + sum(n-1);
}
```

- n should be taken as input from the console.