

**1) (10 pts) DSN (Recursive Functions)**

Complete the function below, to create a **recursive** function ***productDigits*** that takes in 1 parameter, a non-negative integer,  $n$ , and returns the product of  $n$ 's digits. For example *productDigits*(232) will return 12 ( $2 \times 3 \times 2$ ), and *productDigits*(13999019) will return 0.

```
int productDigits(int number){
```

```
}
```