

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){
```

```
}
```