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4AL19CS078

'G' Section

C program to find number of digits in an integer

Algorithm

1. Start

2. Read n;

3. Initialize digits = 0;

4. while (n! = 0)

    4.1 digits ++

    4.2 n=n/10;

5. Display digits;

6. Stop.

Flowchart:

```
        ┌─────────┐
        │  Start  │
        └─────────┘
             │
             ▼
        ┌─────────┐
        │ Read n  │
        └─────────┘
             │
             ▼
       ┌──────────┐
       │ digits=0 │
       └──────────┘
             │
             ▼
          ◇ n!=0 ◇ ──────── F
             │ T
             ▼
       ┌──────────┐
       │ digits++; │
       │  n=n/10;  │
       └──────────┘
             │
             ▼
       ╱ print digits ╱
             │
             ▼
         ( Stop )
```