```
                    ( Main )
                       |
                       v
          +------------------------+
          | Integer a, b, c, d, n  |
          +------------------------+
                       |
                       v
                 / Input a /
                       |
                       v
               +-----------+
               |   d = a   |
               +-----------+
                       |
                       v
               +-----------+
               |   c = 0   |
               +-----------+
                       |
                       v
                   < a>0 >---- True ----+
                       |                |
                    False              v
                       |         +-----------+
                       |         | b = a%10  |
                       |         +-----------+
                       |                |
                       |                v
                       |         +-----------+
                       |         | c = b*b*b+c |
                       |         +-----------+
                       |                |
                       |                v
                       |         +-----------+
                       |         | a = a/10  |
                       |         +-----------+
                       |                |
                       v
     False --------< d==c >-------- True
        |                              |
        v                              v
  / Output "not an armstrong /   / Output "armstrong number" /
  /        number"          /
        |                              |
        +-------------( )--------------+
                       |
                       v
                    ( End )
```

## PSEUDOCODE

BEGIN

GET a,b,c,d,n

INPUT  a

ASSIGN  d=a

ASSIGN  c=0

WHILE LOOP  n>a

COMPUTE   b=a%10

$\qquad$ c=b*b*b+c

$\qquad$ a=a/10

ENDWHILE

IF d==c then "amstrong number"

Else "not an armstrong number"

ENDIF

END