```
                    START
                      |
                      v
              A = INPUT ()
                      |
                      v
                  B = A
                      |
                      v
                  X = 0
                      |
                      v
                  Y = 0
                      |
                      v
                 SUM = 0
                      |
                      v
                     IF
                    A == 0 -----------------+
                      |                      |
                      | FALSE               |
                      v                      |
                 X = A % 10                  |
                      |                      |
                      v                      |
                 Y = X * X * X               |
                      |                      |
                      v                      |
                SUM = SUM + Y                |
                      |                      |
                      v                      |
                 A = A // 10 ----------------+
                      |
                      v
                     IF
                  SUM == B --------------+
                      |                   |
                      v                   v
             PRINT ("YES")          PRINT ("NO")
                      |                   |
                      v                   |
                    STOP <----------------+
```