START

N = INPUT()

X = N

Sum = 0

X > 0 ?
- FALSE → IF N == Sum ?
  - TRUE → PRINT("YES")
  - FALSE → PRINT("NO") → STOP
- TRUE:

Z = X % 10

FACT = 1

Z > 0 ?
- FALSE
- TRUE:
  - FACT = FACT * Z
  - Z = Z - 1

Sum = Sum + FACT

X = X // 10