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'''mass = float(input())
velocity = float(input())

momentum = mass * velocity

print(f"{momentum:.2f} kg m/s")'''

import math

number = int(input())

if 1 <= number <= 9:    # Single-digit number
    print(number ** 2)

elif 10 <= number <= 99:    # Two-digit number
    print(f"{math.sqrt(number):.2f}")

elif 100 <= number <= 999:    # Three-digit number
    print(f"{math.cbrt(number):.2f}")

else:
    print("Invalid")
```