

```
1  # 0.1をN回加えるプログラム
2
3  N = 1000000
4
5  def main():
6      global N
7
8      # Recursive summation
9      s = 0.0
10     for i in range(1, N+1):
11         s += 0.1
12     print("Recursive summation の結果は\t {:.20f}".format(s))
13
14     # Compensated summation
15     s, e = 0.0, 0.0
16     for i in range(1, N+1):
17         tmp = s
18         y = 0.1 + e
19         s = tmp + y
20         e = (tmp - s) + y
21     print("Compensated summation の結果は\t {:.20f}".format(s))
22
23
24 if __name__ == "__main__":
25     main()
```