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Its regular pattern:

last = 0

for i in range(20):

    last = last \* i + 2

    print( i+2 , end=': ')

    print( last )

result :

2: 4

3: 10

4: 32

5: 130

……

19: 1933717344809380

20: 34806912206568842

21: 661331331924808000