

Заполнить массив числами фибоначчи

1,1,2,3,5,8,13,21,34,55,...

```
ms=[1,6,3,6,34,78,1,34,89,34,7,3,65]
i=0
n=1
j=0
k=1
while i<len(ms):
    ms[i]=k
    k=n+j
    j=n
    n=k
    i+=1
print(ms)
```

```
ms=[1, 6, 3, 6, 34, 78, 1, 34, 89, 34, 7, 3, 65]
```

```
i=0
while i<len(ms):
    ms[i]=int((((1 + 5**0.5) / 2)** (i+1) - ((1 - 5**0.5) / 2)** (i+1)) // 5 **
0.5)
    i+=1
print(ms)
```

$$F_n = \frac{\left(\frac{1+\sqrt{5}}{2}\right)^n - \left(\frac{1-\sqrt{5}}{2}\right)^n}{\sqrt{5}}$$